# ATTACHMENT C CORRECTIVE ACTION PLAN AND WELL DATA

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#### 1. INTRODUCTION

This Attachment was prepared in support of Excelsior Mining Arizona, Inc.'s (Excelsior's) Underground Injection Control (UIC) Permit application to the United States Environmental Protection Agency (USEPA). Excelsior is applying for an area Class III UIC permit to install a wellfield for in-situ recovery (ISR) of copper at the Gunnison Copper Project (Project), located in Cochise County, Arizona.

Attachment C Corrective Action Plan and Well Data was prepared in support of Excelsior's UIC Permit application. This attachment identifies existing wells within the Area of Review (AOR) in accordance with the UIC Application Instructions (EPA Form 7520-6). According to Chapter 40 of the Code of Federal Regulations (CFR) §144.55, the applicant

"shall identify the location of all known wells within the injection well's area of review which penetrate the injection zone. For such wells which are improperly sealed, completed, or abandoned, the applicant shall also submit a plan consisting of such steps or modifications as are necessary to prevent movement of fluid into underground sources of drinking water ("corrective action").

#### 2. WELLS WITHIN THE AREA OF REVIEW

Well data were compiled for wells inside the AOR. Well information was compiled from the Arizona Department of Water Resources (ADWR) Well Registry Database and from data provided to Clear Creek by Excelsior. The most recent version of the ADWR Well Registry Database was downloaded from the ADWR website on July 15, 2015. The database was last updated in January 2015 according to the website.

There are 99 known borings within the AOR, 11 of which have been plugged and abandoned. Of the remaining 88 wells, one is classified as non-exempt by ADWR. The remaining wells are generally considered piezometer-monitor wells, although many of them were initially installed as exploration boreholes. Available information for each of the boring/well is included in Table C-1. Locations provided by Excelsior are shown on Figure C-1.

Plugging and Abandonment Plan forms (From 7520-14) for each well are provided in this Attachment<sup>1</sup>. Excelsior will provide signed copies prior to the actual abandonment after they are able to investigate the well construction.

<sup>&</sup>lt;sup>1</sup> Estimated costs are based on the total depth and diameter of the borings. For the estimated cost of abandonment of the NSH wells, we used the average cost of \$14,420 to agree with closure costs in Attachment R-3.



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#### 3. CORRECTIVE ACTION PLAN

Excelsior will plug and abandon existing wells within each mine block prior to beginning injection and recovery in that mine block. This corrective action will be conducted according to the following procedures:

#### 3.1 General Procedure for Plugging and Abandonment

Plugging and abandonment will be conducted based on the "Standard Abandonment Method" in the ADWR Well Abandonment Handbook (Attachment Q-2).

#### 3.1.1 Well and Borehole Preparation

The following tasks will be completed prior to well and borehole abandonment to ensure the success of the plugging procedures that are proposed in the next sub-section.

- 1. <u>Inspect and Document Well:</u> The well will be inspected from the surface. The condition will be documented and recorded and the site will be photographed.
- 2. A static water level will be measured.
- 3. <u>Remove Equipment (if any):</u> Equipment including pumps, wiring, tubing, and transducers will be removed from the well. Some of the wells have PVC liners that can be removed. Any equipment that cannot be retrieved will be documented.

#### 3.1.2 Plugging Procedure

Each well or borehole will be filled as completely as possible with Type V neat cement using the following procedure.

- 1. The area around the well will be cleared and the casing will be cut at two or more feet below grade. Cement or steel resulting from cutting casing will be removed from the site.
- 2. The steel casing and screen will be perforated from 50 feet above the static water level down to the bottom of the casing (or screened interval, if there is one).
- 3. If the well is an open hole completion (i.e. no screen), tremie pipe will be installed to within 20 feet of the bottom of the well. For wells that are determined to be obstructed during preparation, the contractor will try to push the tremie pipe through the obstruction. If the tremie cannot be installed through the obstruction, the contractor will try to install

- drill pipe through the obstruction. If both of those options fail, the well will be abandoned from the obstruction to the surface.
- 4. Type V cement will be installed through the tremie pipe with the end of the tremie pipe below the top surface of the cement to ensure that there are no gaps in the cement seal. The cement will be installed under enough pressure to fill voids in the borehole wall and casing.
- 5. The site will be leveled and the abandoned well will be covered with soil.

#### 4. DOCUMENTATION AND REPORTING

#### 4.1 Documentation

Field personnel will record types and quantities of materials used and emplacement depths of each material. Each site will be photographed after completion and covering of the borehole. Copies of field data and the forms described below will be maintained at the Project site for inspection until closure is completed.

#### 4.2 Reporting

Following the plugging and abandonment of existing wells, reports will be filed with state and federal agencies as described below.

<u>ADWR</u>: Within 30 days of the completion of plugging and abandonment the drilling contractor will submit a Well Abandonment Completion Report (Form 55-58) to ADWR. Within 30 days of completion of plugging and abandonment Excelsior or their designee will submit a Well Owner's Notification of Abandonment (Form 55-36). The forms are included as Exhibit B.

<u>USEPA</u>: Excelsior will report plugging and abandonment activities in the quarterly monitoring reports sent to the USEPA Director. The plugging and abandonment will be included in the quarterly report for the quarter in which the activities were completed. Reporting data will include an updated version of Form 7520-14 and copies of the forms sent to ADWR described above.

<u>ADEQ</u>: will also be notified, as plugging and abandonment is an element of "Best Available Demonstrated Control Technology" (BADCT) for the wellfield.

TABLE C-1
Wells within the Area of Review

ADWR Registry Number 55-	Cadastral Location	Well Name	Owner Name	Easting NAD 83 (ft)	Northing NAD 83 (ft)	Measuring Point Elevation	Abandoned	Drill Date	Well Type	Well Depth	Casing in Hole	Casing Diameter	Casing Depth	Cemented	Cemented Depth (ft)
				14AD 03 (11)		(ft amsl)				(ft)	III HOIC	(in)	(ft)		
221519	D(15-23) 31CBD	NSH-006	EXCELSIOR MINING GROUP	738463.33	394237.3	4833	No	2012	ENV - MONITOR OR PIEZOMETER	680	Yes	4.5	640	Yes	0-615
221520	D(15-23) 31CBD	NSH-003	EXCELSIOR MINING GROUP	738201.82	394344.15	4846	No	2012	ENV - MONITOR OR PIEZOMETER	1432	Yes	4.0	1232	Yes	0-1206
221521	D(15-23) 31CBD	NSH-001	EXCELSIOR MINIING CORP	738265.2	393874.58	4834	No	2012	ENV - MONITOR OR PIEZOMETER	1114	Yes	6.5	700	Yes	660-700
221603	D(15-23) 31CCA	NSH-004B	EXCELSIOR MINIING CORP	738406.35	393880.07	4834	No	2012	ENV - MONITOR OR PIEZOMETER	1031	Yes	4.5	705	Yes	0-685
221604	D(15-23) 31CBD	NSH-005	EXCELSIOR MINING GROUP	738525.68	394033.38	4830	No	2012	ENV - MONITOR OR PIEZOMETER	1024	Yes	4.5	747	Yes	0-724
223835	D(15-23) 31	NSM-007	EXCELSIOR MINING GROUP	737986.92	394488.9	4844	No	2014	SPCL - MINERAL EXPLORATION	1167.9	Yes	4.5	600	No	N/A
224029	D(15-23) 31CCC	NSH-015	EXCELSIOR MINIING CORP	737606.14	393140.05	4808	No	2014	ENV - MONITOR OR PIEZOMETER	820	Yes	8.5	585	Yes	0-577
224030	D(15-23) 31CCC	NSH-016	EXCELSIOR MINING CORP	737458.64	393175.02	4812	No	2014	ENV - MONITOR OR PIEZOMETER	820	Yes	8.5	579	Yes	90-571
224031	D(15-23) 31CCB	NSH-019	EXCELSIOR MINING CORP	738155.23	393436.53	4814	No	2014	ENV - MONITOR OR PIEZOMETER	1410	Yes	8.5	638	Yes	65-631
224032 224033	D(15-23) 31CCA	NSH-021C	EXCELSION MINING CORP	738178.3	393503.73	4815	No	2015	ENV - MONITOR OR PIEZOMETER	1400	Yes	5.5 8.5	624	Yes	313-617
224033	D(15-23) 31CCA D(15-23) 31CCA	NSH-024 NSH-023	EXCELSIOR MINIING CORP EXCELSIOR MINIING CORP	738342.91 738405.09	393552.51 393587.65	4819 4820	No No	2015 2015	ENV - MONITOR OR PIEZOMETER ENV - MONITOR OR PIEZOMETER	1445 1446	Yes		625	Yes	109-612
	_ ' _ '	NSH-023 NSH-020								1600	Yes	5.5	645	Yes	154-631
224035 224036	D(15-23) 31CAD D(15-23) 31CDC	NSH-020 NSH-026	EXCELSIOR MINIING CORP EXCELSIOR MINIING CORP	739685.67 739146.28	394225.67 392899.09	4791 4794	No No	2014 2015	ENV - MONITOR OR PIEZOMETER ENV - MONITOR OR PIEZOMETER	905	Yes	4.5 8.5	1060 625	Yes Yes	340-1035 ?-612
224059	D(15-23) 31CDC D(15-23) 31BCC	NSD-037	EXCELSIOR MINING CORP	737845.93	395606.72	4751	No	2013	SPCL - MINERAL EXPLORATION	1284.4	Yes	4.5	524	Yes	513-522
224097	D(15-23) 31CDC	NSH-022	EXCELSIOR MINING CORP	737643.53	393000.72	4784	No	2014	ENV - MONITOR OR PIEZOMETER	1170	Yes	6.5	1010	Yes	209-972
224097	D(15-23) 31CDC	NSH-022 NSH-017	EXCELSIOR MINING CORP	739140.53	393037.93	4807	No	2015	ENV - MONITOR OR PIEZOMETER	1200	Yes	6.5	940	Yes	382-919
224100	D(15-23) 31CAD	NSH-017 NSH-018	EXCELSIOR MINING CORP	739687.04	394387.46	4780	No	2014	ENV - MONITOR OR PIEZOMETER	997	Yes	4.5	610	No	N/A
224154	D(15-23) 31CAD D(15-22) 36DAA	NSD-026	EXCELSIOR MINING CORP	737356.24	394752.25	4847	No	2014	SPCL - MINERAL EXPLORATION	1168	Yes	4.5	436	No	N/A
224155	D(15-22) 36ADD	NSD-031	EXCELSIOR MINING CORP	737024.7	395487.5	4770	No	2012	SPCL - MINERAL EXPLORATION	1008	Yes	4.5	415	No	N/A
224158	D(15-23) 31CDC	NSH-025	EXCELSIOR MINIING CORP	738294.61	393685.78	4825	No	2015	ENV - MONITOR OR PIEZOMETER	1596	Yes	4.5	1480	Yes	20-1461
224159	D(15-23) 31BCC	CS-13	EXCELSIOR MINING CORP	737558.77	395152.18	4768	No	1971	SPCL - MINERAL EXPLORATION	1251	No	N/A	N/A	Yes	394-461
224160	D(15-23) 31BCC	CS-14	EXCELSIOR MINING CORP	737557.34	395698.82	4758	No	1971	SPCL - MINERAL EXPLORATION	1375	No	N/A	N/A	Yes	323-461
224840	D(15-23) 31CBC	NSM-006	EXCELSIOR MINING GROUP	737927.87	394038.78	4847	No	2014	SPCL - MINERAL EXPLORATION	1217	Yes	4.5	529	No	N/A
224841	D(15-23) 31CCD	NSM-005A	EXCELSIOR MINING GROUP	738781.26	393106.74	4787	No	2014	SPCL - MINERAL EXPLORATION	1171.5	Yes	5.0	593	No	N/A
224842	D(15-23) 31CBD	NSM-004	EXCELSIOR MINING GROUP	738506.71	393990.27	4829	No	2014	SPCL - MINERAL EXPLORATION	1114.5	Yes	4.5	596	No	N/A
224844	D(15-23) 31CCB	NSM-008	EXCELSIOR MINING GROUP	738095.92	393386.62	4816	No	2014	SPCL - MINERAL EXPLORATION	1273	Yes	5.0	546	No	N/A
224845	D(15-23) 31CDC	NSM-009	EXCELSIOR MINING GROUP	738954.82	392689.54	4794	No	2014	SPCL - MINERAL EXPLORATION	1349.1	Yes	5.0	586	No	N/A
224846	D(15-23) 31CCC	NSD-033	EXCELSIOR MINING GROUP	737855.83	392788.24	4809	No	2014	SPCL - MINERAL EXPLORATION	1579	Yes	4.5	500	No	N/A
224847	D(15-22) 36DAC	NSM-013	EXCELSIOR MINING GROUP	736785.02	394382.74	4881	No	2014	SPCL - MINERAL EXPLORATION	953	Yes	4.5	404	Yes	402-404
224848	D(15-22) 36DBA	NSD-030	EXCELSIOR MINING GROUP	736012.13	394822.54	4785	No	2012	SPCL - MINERAL EXPLORATION	767	Yes	4.5	256	No	N/A
224854	D(15-22) 36DBD	NSD-036	EXCELSIOR MINIING CORP	735758.93	394267.19	4888	No	2014	SPCL - MINERAL EXPLORATION	793.3	Yes	4.5	501	Yes	501-502
224860	D(15-23) 31CDB	NSD-043	EXCELSIOR MINIING CORP	739255.99	393741	4802	No	2014	SPCL - MINERAL EXPLORATION	1736	Yes	4.5	627	Yes	618-628
224930	D(15-23) 31CBC	NSD-023	EXCELSIOR MINIING CORP	737808.48	394173.78	4857	No	2012	SPCL - MINERAL EXPLORATION	1546	Yes	4.5	552	No	N/A
224931	D(15-23) 31CAC	NSD-024	EXCELSIOR MINIING CORP	738799.08	394051.36	4823	No	2012	SPCL - MINERAL EXPLORATION	1972	Yes	4.5	671	No	N/A
224932	D(15-23) 31CDC	NSD-025	EXCELSIOR MINIING CORP	738697.88	393061.4	4790	No	2012	SPCL - MINERAL EXPLORATION	1643.5	Yes	4.5	637	No	N/A
224933	D(15-23) 31CBD	NSM-001	EXCELSIOR MINIING CORP	738051.78	394181.02	4851	No	2012	SPCL - MINERAL EXPLORATION	1150	Yes	3.5	590	No	N/A
224934	D(15-23) 31CCD	NSM-002	EXCELSIOR MINIING CORP	738195.42	392736.92	4809	No	2012	SPCL - MINERAL EXPLORATION	1000	Yes	4.5	507	No	N/A
224935	D(15-23) 31CCC	NSM-003	EXCELSIOR MINIING CORP	737701.35	392934.29	4810	No	2012	SPCL - MINERAL EXPLORATION	1028	Yes	4.5	608	No	N/A
224936	D(15-22) 36DAD	NSD-027	EXCELSIOR MINIING CORP	736806.45	394419.15	4883	No	2012	SPCL - MINERAL EXPLORATION	1004.5	Yes	4.5	404	No	N/A
224937	D(15-22) 36DAC	NSD-028	EXCELSIOR MINING CORP	736291.67	394433.4	4881	No No	2012	SPCL - MINERAL EXPLORATION	755	Yes	4.5	396	No	N/A
224938	D(15-22) 36DAB	NSD-029	EXCELSION MINING CORP	736101.29	395247.79	4785	No	2012	SPCL - MINERAL EXPLORATION	260	Yes	4.5	279	No	N/A
224939	D(15-22) 36DAB	NSD-032	EXCELSIOR MINING CORP	736626.53	395306.53	4772	No	2012	SPCL - MINERAL EXPLORATION	686	Yes	N/I	N/I	N/I	N/I
224940 224941	D(15-23) 31CCB	NSD-001 NSD-002	EXCELSIOR MINIING CORP EXCELSIOR MINIING CORP	737801.3 737726.8	393537.11 392950.87	4827 4810	No	2011 2011	SPCL - MINERAL EXPLORATION	1505.5 1907	Yes	4.5 4.5	460 560	No	N/A 564-574
224941	D(15-23) 31CCC D(15-23) 31CCD	NSD-002 NSD-003	EXCELSIOR MINIING CORP	737726.8	392950.87	4810 4805	No No	2011	SPCL - MINERAL EXPLORATION SPCL - MINERAL EXPLORATION	2008	Yes	4.5	563	Yes No	N/A
224942	D(15-23) 31CCD	NSD-003	EXCELSIOR MINING CORP	738449.28	392692.12	4788	No	2011	SPCL - MINERAL EXPLORATION  SPCL - MINERAL EXPLORATION	1793	Yes	4.5	620	No	N/A N/A
224943	D(15-23) 31CDD D(15-23) 31CCA	NSD-009 NSD-011	EXCELSIOR MINIING CORP	739417.77	393047.95	4788	No No	2011	SPCL - MINERAL EXPLORATION  SPCL - MINERAL EXPLORATION	1/93	Yes	4.5	650	No No	N/A N/A
224945	D(15-23) 31CCA D(15-23) 31CCB	NSD-011 NSD-019	EXCELSIOR MINING CORP	737674.27	393923.43	4848	No	2011	SPCL - MINERAL EXPLORATION  SPCL - MINERAL EXPLORATION	1454	Yes	4.5	620	No	N/A
224946	D(15-23) 31CDB	NSD-019	EXCELSIOR MINING CORP	737074.27	393545.51	4800	No	2011	SPCL - MINERAL EXPLORATION	660	Yes	4.5	660	No	N/A
225068	D(15-23) 31CDB	DC-09	EXCELSIOR MINING CORP	737203.44	396082.94	4765	No	N/I	SPCL - MINERAL EXPLORATION  SPCL - MINERAL EXPLORATION	1500	N/I	4.5 N/I	N/I	N/I	N/I
225070	D(15-22) 36DAA	JS-05	EXCELSIOR MINING CORP	736922.48	394882.63	4765	No	1989	SPCL - MINERAL EXPLORATION	588	N/I	N/I	N/I	N/I	N/I
225071	D(15-22) 36DAA	JS-06	EXCELSIOR MINING CORP	736941.08	394790.93	4773	No	1989	SPCL - MINERAL EXPLORATION	599	N/I	N/I	N/I	N/I	N/I
225071	D(15-22) 36DAA	JS-07	EXCELSIOR MINING CORP	736922.17	394976	4768	No	1989	SPCL - MINERAL EXPLORATION	478.5	N/I	N/I	N/I	N/I	N/I
225076	D(15-22) 36DAA	S-01	EXCELSIOR MINING CORP	737274.78	395034.29	4769	Yes	1973	SPCL - MINERAL EXPLORATION	1211	N/A	N/A	N/A	N/A	N/A
225077	D(15-22) 36ADC	S-03	EXCELSIOR MINING CORP	736599.02	395756.74	4777	Yes	N/I	SPCL - MINERAL EXPLORATION	1223	N/A	N/A	N/A	N/A	N/A
	D(15-22) 36DAB	S-04	EXCELSIOR MINING CORP	736497.89	394892.23	4776	Yes	1973	SPCL - MINERAL EXPLORATION	966	N/A	N/A	N/A	N/A	N/A
225078															
225078	D(15-23) 31CCD	CS-03	EXCELSIOR MINIING CORP	738647.21	393212.04	4794	No	1971	SPCL - MINERAL EXPLORATION	2038	No	N/A	N/A	Yes	458-486

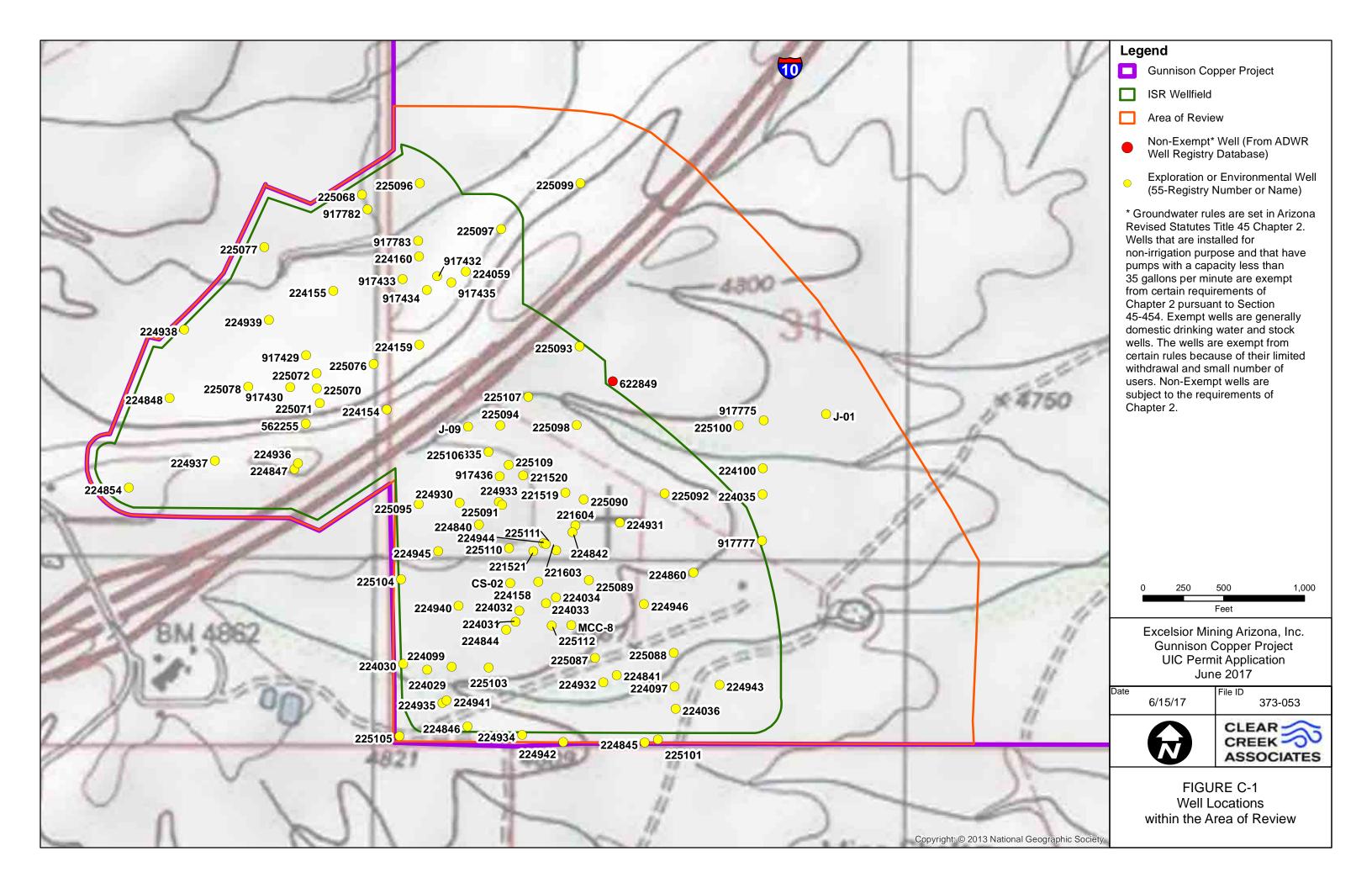


TABLE C-1
Wells within the Area of Review

ADWR Registry Number 55-	Cadastral Location	Well Name	Owner Name	Easting NAD 83 (ft)	Northing NAD 83 (ft)	Measuring Point Elevation (ft amsl)	Abandoned	Drill Date	Well Type	Well Depth (ft)	Casing in Hole	Casing Diameter (in)	Casing Depth (ft)	Cemented	Cemented Depth (ft)
225089	D(15-23) 31CDC	CS-05	EXCELSIOR MINIING CORP	738608.92	393694.89	4818	No	1971	SPCL - MINERAL EXPLORATION	2034	No	N/A	N/A	Yes	628-640
225090	D(15-23) 31CAC	CS-06	EXCELSIOR MINIING CORP	738576.3	394194.54	4831	No	1971	SPCL - MINERAL EXPLORATION	2160	No	N/A	N/A	Yes	630-715
225091	D(15-23) 31CBC	CS-07	EXCELSIOR MINIING CORP	738071.33	394162.26	4850	No	1971	SPCL - MINERAL EXPLORATION	1796	Yes	4.5	596	Yes	506-596
225092	D(15-23) 31CAC	CS-08	EXCELSIOR MINIING CORP	739077.57	394231.13	4809	No	1971	SPCL - MINERAL EXPLORATION	2304	No	N/A	N/A	Yes	250-648
225093	D(15-23) 31CAB	CS-09	EXCELSIOR MINIING CORP	738551.02	395144.23	4833	No	1971	SPCL - MINERAL EXPLORATION	2337	No	N/A	N/A	Yes	360-715
225094	D(15-23) 31CBD	CS-10	EXCELSIOR MINIING CORP	738060.5	394653.38	4829	No	1971	SPCL - MINERAL EXPLORATION	1656	No	N/A	N/A	Yes	720-730
225095	D(15-23) 31CBC	CS-11	EXCELSIOR MINIING CORP	737554.82	394166.14	4863	No	1971	SPCL - MINERAL EXPLORATION	2084	No	N/A	N/A	Yes	416-480
225096	D(15-23) 31BCB	CS-15	EXCELSIOR MINIING CORP	737561.5	396153.55	4757	No	1971	SPCL - MINERAL EXPLORATION	492	No	N/A	N/A	No	N/A
225097	D(15-23) 31BCD	CS-19	EXCELSIOR MINIING CORP	738065.04	395870.87	4757	No	1971	SPCL - MINERAL EXPLORATION	580	Yes	3.5	580	Yes	480-580
225098	D(15-23) 31CBD	CS-21	EXCELSIOR MINIING CORP	738532.95	394655.34	4810	No	1971	SPCL - MINERAL EXPLORATION	2171	No	N/A	N/A	Yes	605-687
225099	D(15-23) 31BDA	CS-23	EXCELSIOR MINIING CORP	738556.65	396154.06	4792	No	1971	SPCL - MINERAL EXPLORATION	622	Yes	3.5	622	Yes	522-622
225100	D(15-23) 31CAD	CS-41	EXCELSIOR MINIING CORP	739537.3	394653.69	4793	No	1971	SPCL - MINERAL EXPLORATION	448	Yes	4.0	448	Yes	408-448
225101	D(15-23) 31CDC	CS-51	EXCELSIOR MINIING CORP	739035.96	392707.85	4792	No	1972	SPCL - MINERAL EXPLORATION	1838	No	N/A	N/A	Yes	552-639
225103	D(15-23) 31CCD	J-04	EXCELSIOR MINIING CORP	737987.71	393154.24	4804	No	1970	SPCL - MINERAL EXPLORATION	1509	N/I	N/I	N/I	N/I	N/I
225104	D(15-23) 31CCB	J-05	EXCELSIOR MINIING CORP	737444.95	393699.86	4837	No	1974	SPCL - MINERAL EXPLORATION	1475	N/I	N/I	N/I	N/I	N/I
225105	D(15-23) 31CCC	J-06	EXCELSIOR MINIING CORP	737434.29	392728.1	4824	No	1970	SPCL - MINERAL EXPLORATION	937	N/I	N/I	N/I	N/I	N/I
225106	D(15-23) 31CBC	J-07	EXCELSIOR MINIING CORP	737878.08	394483.65	4846	No	N/I	SPCL - MINERAL EXPLORATION	988	N/I	N/I	N/I	N/I	N/I
225107	D(15-23) 31CBA	J-08	EXCELSIOR MINIING CORP	738233.34	394829.84	4810	No	N/I	SPCL - MINERAL EXPLORATION	1350	N/I	N/I	N/I	N/I	N/I
225109	D(15-23) 31CBD	J-10	EXCELSIOR MINIING CORP	738111.75	394409.48	4855	No	N/I	SPCL - MINERAL EXPLORATION	1062	N/I	N/I	N/I	N/I	N/I
225110	D(15-23) 31CCA	MCC-1	EXCELSIOR MINIING CORP	738115.44	393891.8	4836	Yes	1994	SPCL - MINERAL EXPLORATION	1346	N/A	N/A	N/A	N/A	N/A
225111	D(15-23) 31CCA	MCC-2	EXCELSIOR MINIING CORP	738341.25	393919.23	4834	Yes	1994	SPCL - MINERAL EXPLORATION	1232	N/A	N/A	N/A	N/A	N/A
225112	D(15-23) 31CCA	MCC-3	EXCELSIOR MINIING CORP	738377.4	393414.04	4812	Yes	1994	SPCL - MINERAL EXPLORATION	1346	N/A	N/A	N/A	N/A	N/A
562255	D(15-22) 36DAD	SULLY 97-7	EXCELSIOR MINING CORP	736854.35	394663.73	4800	Yes	N/I	SPCL - MINERAL EXPLORATION	396	N/A	N/A	N/A	N/A	N/A
622849	D(15-23) 31CBA	HIGGINBOTHAM	RONALD B & VENICE J HIGGINBOTHAM FAMILY TRUST	738756.28	394926.73	4830	N/I	N/I	NON-EXEMPT	1350	N/I	N/I	N/I	N/I	N/I
917429	D(15-22) 36DAA	NSH-008	EXCELSIOR MINING CORP	736856.77	395088.59	4772	No	2014	ENV - MONITOR OR PIEZOMETER	900	Yes	4.5	720	Yes	191-700
917430	D(15-22) 36DAB	NSH-007	EXCELSIOR MINING CORP	736757.42	394889.08	4773	No	2014	ENV - MONITOR OR PIEZOMETER	640	Yes	8.5	469	Yes	30-463
917432	D(15-23) 31BCC	NSH-014B	EXCELSIOR MINING CORP	737667.63	395577	4749	No	2014	ENV - MONITOR OR PIEZOMETER	1277	Yes	4.5	1180	Yes	65-1160
917433	D(15-23) 31BCC	NSH-009	EXCELSIOR MINING CORP	737455.53	395561.03	4754	No	2014	ENV - MONITOR OR PIEZOMETER	1060	Yes	4.5	813	Yes	353-785
917434	D(15-23) 31BCC	NSH-010	EXCELSIOR MINING CORP	737605.1	395490.01	4750	No	2014	ENV - MONITOR OR PIEZOMETER	720	Yes	8.5	546	Yes	0-546
917435	D(15-23) 31BCC	NSH-012	EXCELSIOR MINING CORP	737755.85	395538.41	4750	No	2014	ENV - MONITOR OR PIEZOMETER	504	Yes	4.5	430	Yes	0-409
917436	D(15-23) 31CBC	NSH-013	EXCELSIOR MINING CORP	738056.78	394338.52	4850	No	2014	ENV - MONITOR OR PIEZOMETER	1070	Yes	8.5	646	Yes	75-646
917775	D(15-23) 31CAD	NSH-030	EXCELSIOR MINING CORP	739691.19	394683.79	4792	No	2015	ENV - MONITOR OR PIEZOMETER	740	Yes	2.5	600	No	N/A
917777	D(15-23) 31CDA	NSH-029	EXCELSIOR MINING CORP	739681.74	393940.42	4797	No	2015	ENV - MONITOR OR PIEZOMETER	710	Yes	2.5	604	No	N/A
917782	D(15-23) 31BCB	NSH-031	EXCELSIOR MINING CORP	737236.87	395991.56	4763	No	2015	ENV - MONITOR OR PIEZOMETER	820	Yes	2.5	721	Yes	0-683
917783	D(15-23) 31CDA	NSH-032	EXCELSIOR MINING CORP	737550.79	395796.75	4759	No	2015	ENV - MONITOR OR PIEZOMETER	820	Yes	2.5	720	Yes	0-690
N/I	D(15-23) 31CCB	CS-02	EXCELSIOR MINIING CORP	738122.13	393675.99	4821	No	1971	SPCL - MINERAL EXPLORATION	1770	No	N/A	N/A	Yes	440-508
N/I	D(15-23) 31DBB	J-01	EXCELSIOR MINIING CORP	740078.54	394723.65	4786	Yes	1970	SPCL - MINERAL EXPLORATION	1800	N/A	N/A	N/A	N/A	N/A
N/I	D(15-23) 31CBB	J-09	EXCELSIOR MINIING CORP	737859.91	394645.39	4824	No	N/I	SPCL - MINERAL EXPLORATION	1158	N/I	N/I	N/I	N/I	N/I
N/I	D(15-23) 31CCA	MCC-8	EXCELSIOR MINIING CORP	738499.34	393416.72	4808	Yes	1995	SPCL - MINERAL EXPLORATION	1013	N/A	N/A	N/A	N/A	N/A
	, ,		sl = feet above mean sea level:										,	,	,

Notes: ADWR = Arizona Department of Water Resources; ft amsl = feet above mean sea level; N/A = Not Applicable; N/I = No Information





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<b>AL</b>			PL	UGGIN	IG AN	ID AB	A۱	NDON	ME	ENT PL	AN			
Name an	d Address of F	acility					Na	me and Ac	ddre	ess of Owner	/Operator			
	LSIOR MINII IISON PROJE									MINING C		TE 300 PL	IOENIX, A	7 85018
GOTT	(ISOIVI ROJE				<u> </u>			ONCOR			7711151,			2 63016
	cate Well and C				State AZ					ochise		TBD	Number	
<u> 5ec</u>	ction Plat - 640 /			-	Surface	Location	Des	cription						
	<del>                                     </del>	N I	<del></del>		1/4	of <u>nw</u> 1/	4 of	F_SW_1/4 o	of S	SW 1/4 of	Section 31	Township	15S Range	23E
L	<u> </u>	_		-	Locate v	vell in two	dir	ections fr	om	nearest line	s of quarter	section and	drilling unit	
L		_	_		Surface									
										e of quarter				
	<u> </u>	- <b> </b>		-	and <u>712</u>					f quarter sed	ction.			
w	+ + +			E	Ind	i ۲PE Oi lividual Pe		JTHORIZAT if	HON	4	☐ CLA		ACTIVITY	
<u> </u>	<u> </u>	╌┠╌┼╌┞	-			a Permit					CLA			
	· · · · · · · · · · · · · · · · · · ·	$ \vdash$ $ \vdash$	-		Ru	le						Brine Dispos	al	
X	<u>.i., L.i.</u>	_			Numbe	er of Wells	1					Enhanced Re		
						Hydrocai						lydrocarbon ss ⊪	Storage	
		S								Well Number N/A, CS-02				
		ame	_				1	Dei						
	1	SING AND TUB		1			1			METH	OD OF EMPI	ACEMENT O	F CEMENT P	LUGS
SIZE NA	WT (LB/FT) Unknown	TO BE PUT IN	WELL (FI)	10 BE	LEFIINV	EFT IN WELL (FT) HOLE SIZE  V The Balance Method  14.5  The Dump Bailer Method								
INA	Clikilowii					The Dump Bailer Method  The Two-Plug Method								
						Other								
														1
0: (1		TO PLUG AND				PLUG :	#1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	lole or Pipe in Bottom of Tub			(Inche		4.5 1770	_		=					
	Cement To Be		•			165								
Slurry V	olume To Be Pu	ımped (cu. ft.)				195								
	ed Top of Plug					2								
	d Top of Plug( /t. (Lb./Gal.)	if tagged ft.)				15.6	_		_					
	ment or Other M	Material (Class I	II)			V	_							
	LIS	T ALL OPEN H	OLE AND/O	R PERFOR	ATED INT	ERVALS A	AND	INTERVA	LS V	WHERE CAS	ING WILL BE	VARIED (if a	any)	
	From			То						From			То	
0			1770											
Water	level will b	e measured	prior to	abando	onment	t. Casin	g w	/ill be pe	erfo	orated fro	om 50 fe	et above v	water leve	el to
bottor	m of casing.													
	d Cost to Plug	Wells				'								
\$12,3	390													
						Certific	cat	ion						
	ertify under the													
int	tachments and formation is tru	ie, accurate, an	d complete	. I am awa	are that t						-			•
po	ssibliity of fine	and imprisonr	nent. (Ref.	40 CFR 14	44.32)									
	d Official Title		r print)		Sig	jnature							Date Signed	
Vit Ku	hnel, Hydrolo	gy Manager												

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<b>⊘</b> □	FA		PL	UGGIN	IG AN	D ABA	ANDO	MNC	ENT PL	AN				
Name ar	nd Address of F	acility					Name a	nd Addr	ess of Owner	r/Operator				
	LSIOR MINII NISON PROJE								MINING C		TE 200 DU	OENIIX A	7.05010	
GUNN	NISON PROJE	.C1		T			CONC		PL, 2999 N	441H S1, S			2 85018	
	cate Well and C				State AZ				ounty Cochise		Permit TBD	Number		
Sec	ction Plat - 640 A	Acres				ocation D	escript		Cocinise		ТВБ			
	<del></del>	N						_	SW 1/4 of	Section 31	Township	15S Pange	23E	
			i	-					n nearest line					
			<u> </u>			en in two (	airectio	ns from	i nearest line	s of quarter	section and	arilling unit		
	+	<b>-  - + -</b>  -	- + -		Surface	514 ft frr	m (N/S)	S	ne of quarter	section				
_	<u> </u>	_	_						of quarter se					
_ w			<u> </u>	E	-	TYPE OF					WELL A	CTIVITY		
VV				=		vidual Per	mit			CLAS	SS I			
	<b>†</b>		- <del> </del>			a Permit				CLAS		_		
	++	- $  +$ $ +$	-+-		Rul						rine Disposa Inhanced Re			
	<u> </u>	_			Number	Number of Wells Hydrocarbon Storage								
	X										nydrocarbon Storage :LASS III			
		s			Lease Na	me			Well Number 55-225087, CS-03					
	CA	SING AND TUB	ING PECOI	DD AETED								E CEMENT DI	IIGS	
SIZE	WT (LB/FT)	TO BE PUT IN			ног	E SIZE	-			CLWLINT	-000			
NA	Unknown	0	TVVLLL (I I)	0	LLI I III W	The Balance Method  The Dump Bailer Method								
1 1/2 1						The Two-Plug Method								
						Other								
	CEMENTING	TO PLUG AND	ABANDON I	DATA:		PLUG #1	1 PL	UG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
	Hole or Pipe in			I (inche		4	4							
	Bottom of Tub					2038	╬							
	olume To Be Pu	· ·	-5/			178	=							
Calculat	ed Top of Plug	(ft.)				2								
Measure	ed Top of Plug (	if tagged ft.)												
_	/t. (Lb./Gal.)					15.6								
Type Ce	ment or Other N					V								
	From	T ALL OPEN H	OLE AND/O	R PERFOR To	ATED INTE	ERVALS A	ND INTE	RVALS	From	ING WILL BE	VARIED (if a	To		
0	110111		2038	10					110111			10		
	1 1 111									·				
	r level will k		d prior to	o aband	onment	Casing	will b	e per	forated fr	om 50 fe	et above v	water leve	el to	
	m of casing													
	ed Cost to Plug	vvelis												
\$14,2	100													
						Certific	ation							
	ertify under the													
	tachments and formation is tru						-			-			)	
	ossibliity of fine					•		-		-	,	•		
Name ar	nd Official Title	(Please type o	r print)		Sigi	nature						Date Signed		
Vit Ku	hnel, Hydrolog	gy Manager												

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<b>V</b> L	r A		PLI	UGGIN	IG AN	D AB	A۱	IDONI	ME	ENT PL	AN				
	d Address of F									ess of Owner	•				
	LSIOR MININ									MINING C L, 2999 N		STE 300, PH	IOENIX, A	Z 85018	
	cate Well and C				State AZ					unty ochise		Permit TBD	Number		
360	ction Flat - 040 A	N			Surface I	_ocation	Des	cription							
	<del>                                     </del>	<u> </u>			1/4	of <u>nw</u> 1/	4 of	<u>se</u> 1/4 d	of _S	SW 1/4 of	Section 31	Township	15S Range	23E	
H	<u> </u>	╌┠╌┼╌┞			Locate w	ell in two	dir	ections fr	om	nearest line	s of quarter	section and	drilling unit		
		▃ <mark>┠</mark> ╾┽╼┼			Surface	<b>*</b> 0.			1						
	i_Li.	_ <b>L</b> _i_i								ne of quarter of quarter sec					
			!	-	and <u>141</u>			THORIZAT			ction.	WELL A	ACTIVITY		
w	1 1 1		E	E	Indi	vidual Pe	ermi	t			CLAS				
	<u> </u>	╌┠╌┼╌╎	- + -			a Permit					CLA				
	<del>-</del> <del>-</del> <del>-</del> <del>-</del>	- <b>-</b> - <del>-</del> i	i		Rul	Rule Brine Disposal									
	$\bot$ $\bot$ $\bot$ $\bot$	_	_		Numbe	Number of Wells Hydrocarbon Storage									
											CLA	•			
		S			Lease Na	me				Well Number 55-225088, CS-04					
	CA	SING AND TUE	ING RECOF	RD AFTER F						METH			F CEMENT P	LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	EFT IN W	/ELL (FT)		HOLE SIZ	Έ	✓ The	Balance Me	ethod					
NA	Unknown	0		0		The Dump Bailer Method									
						The Two-Plug Method									
						Other									
	CEMENTING	TO PLUG AND	ABANDON [	DATA:		PLUG :	#1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of H	lole or Pipe in	which Plug Wil	I Be Placed	(inche		4									
	Bottom of Tub					2209									
	Cement To Be	•	g)			164	_		_						
	olume To Be Pu					193	_								
	d Top of Plug (					<i>L</i>									
Slurry W	/t. (Lb./Gal.)					15.6									
Type Cer	ment or Other N	laterial (Class I	II)			V									
	LIS From	ST ALL OPEN H	OLE AND/OF	R PERFORA To	ATED INT	ERVALS A	AND	INTERVA		WHERE CAS	ING WILL BE	VARIED (if a	To		
	FIOIII			10						FIOIII			10		
W/ato	r level will l	no monsuro	d prior to	o abando	onmon:	t Casin	G V	vill ha n	orf	forated fr	om 50 fo	ot abovo	water lev	ol to	
	m of casing		a prior to	o abandi	Jillien	t. Casiii	ig v	viii be þ	, С 1 1	iorateu ii	om so le	et above	water lev	erto	
	ed Cost to Plug														
\$15,4		770110													
	Certification														
Ιc	ertify under the	e penalty of law	that I have	personally	y examine	ed and an	ı far	niliar with	the	e information	submitted	in this docur	nent and all		
	tachments and formation is tru						-	-			-			<b>.</b>	
	ssibliity of fine						. 9 . 11	pon			10130 1			-	
Name an	d Official Title	(Please type o	r print)		Sig	nature							Date Signed	l	
Vit Ku	hnel, Hydrolog	gy Manager													

OMB No. 2040-0042 Approval Expires 11/30/2014

<b>⊘</b> □	ГА		PLU	GGING	ANI	D ABA	NDO	<b>IM</b>	ENT PL	AN			
	d Address of F								ess of Owner				
	LSIOR MININ								MINING C PL, 2999 N		TE 300, PH	IOENIX, A	Z 85018
	cate Well and C			Stat A2					ounty Ochise		Permit TBD	Number	
		N		Sur	face L	ocation De	escription						
	<del>       </del>				1/4 o	f SW 1/4	of <u>se</u> 1/	4 of _	SW 1/4 of	Section 31	Township	15S Range	23E
	<u> </u>	_		Loc	ate we	ell in two d	irections	from	nearest line	s of quarter	section and	drilling unit	
		▂ <mark>┃</mark>	_		face			_					
			i l						ne of quarter				
	<u> </u>	_ <del>[                                   </del>	- <del></del>	and	1271	ft. from (E/			of quarter sec	ction.	MELL	N CTIVITY	
w	+ + +		E		Indiv	idual Peri		AIIO	N	CLAS		ACTIVITY	
_	<u> </u>	╌┠╌┼╌┞	_	<b>✓</b>	_	Permit	,			CLAS			
		_	_		Rule	•				□в	rine Dispos	al	
			l 	N	Number of Wells 1								
	$\overrightarrow{ } \overrightarrow{ }_{\mathbf{X}} \overrightarrow{ }$	┍┢╶┆┈┆			Number of Wells Hydrocar							Storage	
		S								CLASS III			
		<u> </u>		Lea	Lease Name					Well Numb	per 55-225	089, CS-05	
	CA	SING AND TUB	ING RECORD	AFTER PLU	R PLUGGING				METHOD OF EMPLACEMENT OF CEMENT PLUGS				
SIZE	WT (LB/FT)	TO BE PUT IN	I WELL (FT)	TO BE LEFT	E LEFT IN WELL (FT) HOLE SIZ				▼ The Balance Method				
NA	Unknown	0		0	The Dump Bailer Method								
								_	The	Two-Plug M	ethod		
								_	Oth	ier			
	CEMENTING	TO PLUG AND	ARANDON DA	ΤΔ.		PLUG #1	PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H		which Plug Wil				4	1.200		. 200 #0	1200 #4	. 200 #6	1200 #6	1200 #//
		oing or Drill Pip				2034							
Sacks of	Cement To Be	Used (each plu	g)			150							
	olume To Be Pu	. ,				177							
	ed Top of Plug					2	-	_					
	d Top of Plug ( t. (Lb./Gal.)	ir tagged it.)				15.6							
_	, ,	Material (Class I	 III)			V							
		ST ALL OPEN H		PERFORATE	D INTE	RVALS AN	ID INTERV	ALS	WHERE CAS	ING WILL BE	VARIED (if a	iny)	
	From			То					From		· · ·	То	
0			2034										
Water	level will b	e measured	prior to a	abandonm	nent.	Casing	will be	per	forated fr	om 50 fee	t above v	water leve	el to
bottor	m of casing.	•											
Estimate	d Cost to Plug	Wells											
\$14,2	38												
att	achments and	e penalty of law that, based on ie, accurate, an	my inquiry of	f those indiv	amined iduals	immediate	amiliar wi	sible	e for obtainir	ng the inform	ation, I beli	eve that the	<u>.</u>
		and imprisonr				<b>.</b> 9	۴			, <b>,</b> ,	,		
Name an	d Official Title	(Please type o	r print)		Sign	ature						Date Signed	ı
Vit Kul	hnel, Hydrolog	gy Manager											

OMB No. 2040-0042 Approval Expires 11/30/2014

**\$EPA PLUG** Name and Address of Facility **EXCELSIOR MINING CORP GUNNISON PROJECT** Locate Well and Outline Unit on Section Plat - 640 Acres

PLUGGING AND ABANDONMENT PLAN  Name and Address of Facility  EXCELSIOR MINING CORP GUNNISON PROJECT  Locate Well and Outline Unit on Section Plat - 640 Acres  State  N  Surface Location Description  N  1/4 of SW 1/4 of SW 1/4 of Section 31 Township 15S Range 23E  Locate well in two directions from nearest lines of quarter section and drilling unit  Surface  Location 1140 ft. frm (N/S) N Line of quarter section  TYPE OF AUTHORIZATION  WELL ACTIVITY  Individual Permit  V Area Permit  Rule  Number of Wells 1  Number of Wells 1  Number of Wells 1  Number of Wells 1  Number of Swards  Rule  Number of Wells 1  Number of Wells 1  Number of Swards  Permit Number of Cochise  Township 15S Range 23E  Locate well in two directions from nearest lines of quarter section and drilling unit  Surface  Location 1140 ft. frm (N/S) N Line of quarter section  TYPE OF AUTHORIZATION  WELL ACTIVITY  Individual Permit  V Area Permit  Rule  Brine Disposal  Enhanced Recovery  Hydrocarbon Storage													
EXCELSIOR MINING CORP GUNNISON PROJECT  Locate Well and Outline Unit on Section Plat - 640 Acres  State  AZ  County  Cochise  Surface Location Description  1/4 of SW 1/4 of Ne 1/4 of SW 1/4 of Section 31 Township 15S Range 23E  Locate well in two directions from nearest lines of quarter section and drilling unit Surface  Location 1140ft. frm (N/S) N Line of quarter section  and 1228ft. from (E/W) W Line of quarter section.  TYPE OF AUTHORIZATION  Individual Permit  A Rule  Number of Wells 1  Number of Wells 1													
CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018  Locate Well and Outline Unit on Section Plat - 640 Acres    State													
Locate Well and Outline Unit on Section Plat - 640 Acres    N													
Surface Location Description  1/4 of SW 1/4 of Section 31 Township 15S Range 23E  Locate well in two directions from nearest lines of quarter section and drilling unit  Surface  Location 1140ft. frm (N/S) N Line of quarter section  and 1228ft. from (E/W) W Line of quarter section.  TYPE OF AUTHORIZATION  Individual Permit  Area Permit  Rule  Number of Wells 1  Number of Wells 1													
N  1/4 of SW 1/4 of ne 1/4 of SW 1/4 of Section 31 Township 15S Range 23E  Locate well in two directions from nearest lines of quarter section and drilling unit  Surface Location 1140ft. frm (N/S) N Line of quarter section and 1228ft. from (E/W) W Line of quarter section.  TYPE OF AUTHORIZATION  WELL ACTIVITY  Individual Permit  Area Permit  Rule  Number of Wells 1  Number of Wells 1													
Locate well in two directions from nearest lines of quarter section and drilling unit  Surface Location 1140 ft. frm (N/S) N Line of quarter section and 1228 ft. from (E/W) W Line of quarter section.  TYPE OF AUTHORIZATION WELL ACTIVITY Individual Permit V Area Permit Rule  Number of Wells 1  Number of Wells 1													
CLASS I	and 1228 ft. from (E/W) W Line of quarter section.  TYPE OF AUTHORIZATION WELL ACTIVITY  Individual Permit  Area Permit  Rule  Brine Disposal												
Area Permit    X													
Rule   Rule   Brine Disposal   Enhanced Recovery													
- +													
Number of Wells 1													
CLASS III													
S 55 225000 CS 06													
Lease Name Well Number													
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS													
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   The Balance Method													
NA Unknown 0 0 4 The Dump Bailer Method													
The Two-Plug Method													
Other													
CEMENTING TO PLUG AND ABANDON DATA:  PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG	#7												
Size of Hole or Pipe in which Plug Will Be Placed (inche: 4 Depth to Bottom of Tubing or Drill Pipe (ft 2160	=												
Sacks of Cement To Be Used (each plug)	_												
Slurry Volume To Be Pumped (cu. ft.)	=												
Calculated Top of Plug (ft.)	_												
Measured Top of Plug (if tagged ft.)													
Slurry Wt. (Lb./Gal.) 15.6													
Type Cement or Other Material (Class III)													
LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)													
From To From To													
0 2160													
Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.													
Estimated Cost to Plug Wells													
\$15,120													
Certification													
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144 32)													

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		
	1	

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<b>\</b>		_		PL	_UGGII	NG AN	ND AB	A۱	NDON	ME	ENT PL	AN				
		Address of F									ess of Owner					
		SIOR MINII ISON PROJE									MINING C L, 2999 N		STE 300, PI	IOENIX, A	Z 85018	
		ate Well and C	Outline Unit on			State AZ					ounty ochise		Permit TBD	Number		
	000		N			Surface	Location	Des	cription							
		<del>       </del>				1/4	4 of <u>SW</u> 1	/4 of	<u>nw</u> 1/4 o	of _	SW 1/4 of	Section 31	Township	15S Range	23E	
	<u> </u>	<u> </u>	_			Locate	well in two	dir	ections fr	om	nearest line	s of quarte	section and	drilling unit		
		╵╶╵ ╅╼┢╼╬				Surface				7						
		i_Li.	L_i_i	i						-	ne of quarter					
				ļ ļ		and <u>123</u>			/) <u>vv</u> Lir JTHORIZAT		of quarter sec	ction.	WELL	ACTIVITY		
w		<del>                                     </del>			E	☐ Inc	dividual Pe				.•	☐ CLA				
	X	<del> </del>	╼┠╸┽╼╏			✓ Ar	ea Permit					CLA	SS II			
	Λ.	<u>+</u> − <del> </del> − + ·	<b>-  </b> i	- <del>- i</del> -		Rı	ıle						Brine Dispos			
		<u> </u>	_	_ [_ [		Numb	Number of Wells 1 Enhanced Recovery									
							CLASS III						•	Storage		
			S			Lease N	lamo					Well Number 55-225091, CS-07				
		CA	SING AND TUE	ING RECO	ORD AFTER						METH			F CEMENT P	LUGS	
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN W									HOLE SIZ	'E	✓ The	Balance M	ethod			
4.5		Unknown	0		~596		4.5 The Dump Bailer Method									
							The Two-Plug Method									
							Other									
		CEMENTING	TO PLUG AND	ARANDON	Ι ΠΑΤΑ·		PLUG	#1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size	of H		which Plug Wil				4.5			_				. 200 #6		
Dept	n to	Bottom of Tuk	oing or Drill Pip	e (ft			~596									
			Used (each plu	g)			168									
		d Top of Plug	umped (cu. ft.)				198	_		_						
		Top of Plug (					L									
Slurr	y Wi	. (Lb./Gal.)					15.6									
Type	Cen	nent or Other M	Material (Class	II)			V									
			ST ALL OPEN H	OLE AND/			TERVALS	AND	INTERVA			ING WILL BI	E VARIED (if			
		From			То						From			То		
\	_								•11.1	_		50 f			1. 1	
			e measured	prior t t	o aband	onmen	it. Casin	g w	/III be pe	ert	orated fro	om 50 fe	et above v	water leve	el to	
Į		n of casing														
	,17	d Cost to Plug ว	weiis													
٦٦	,	_														
							Certific	cat	ion							
	Loc	artify under the	e nenalty of law	that I hav	/e nersonal	lv ovamir				the	e information	n submitted	in this docu	ment and all		
	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the															
			ie, accurate, an e and imprisoni				tnere are s	igni	iticant per	nalti	ies tor subm	itting false	information,	including the	е	
Name	ane	d Official Title	(Please type o	r print)		Sig	gnature							Date Signed	İ	
		nel, Hydrolo														

		FA		PLU	JGGING	ANI	D ABA	۸ND	ONM	IENT PL	AN			
		d Address of F								ress of Owner				
		LSIOR MININ								R MINING O PL, 2999 N		TE 300, PF	IOENIX, A	Z 85018
		ate Well and C	Outline Unit on			ate Z				Cochise		Permit TBD	Number	
1	Seci	11011 Flat - 040 A			Su	ırface L	ocation D	escri	ption					
l r		1 1	N T T			1/4 c	of SW 1/4	of n	e1/4 of	SW 1/4 of	Section 31	Township	15S Range	23E
		<u> </u>			Lo	cate w	ell in two	direct	ions fron	n nearest line	s of quarter	section and	drilling unit	
					Sı	ırface								
		T —			Lo	cation	1087 <sub>ft. fri</sub>	m (N/S	s) <u>N</u> L	ine of quarter	section			
		<u> </u>	╌┠╌┼╌╎		an	d <u>806</u>				of quarter se	ction.			
w		+ + +			.   ,	_	TYPE OF		ORIZATIO	ON			ACTIVITY	
		<u> </u>					vidual Per Permit	rmit			CLAS			
		x			l i	Rule						ss II Brine Dispos	al	
		<del>                                     </del>				Enhanced Recovery								
		<u> </u>	╌┠╌┼╌┞			Number of Wells Hydrocarbon Storage							Storage	
											CLASS III			
i			S		Le	Lease Name					Well Num	55-225	092, CS-08	
		CA	SING AND TUB	ING RECOR	D AFTER PL	UGGING	;			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	:	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LE	FT IN W	ELL (FT)	но	LE SIZE	☐ The	Balance Me	athod		
NA		Unknown	0		0			4		<b>⊤</b>	Dump Baile			
						The Two-Plug Method								
						Other Date of the control of the con								
<u> </u>							I	<u> </u>			-	1	1	F
Cina			TO PLUG AND				PLUG #	1 P	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wil oing or Drill Pip		(inche:		2304	╬						
			Used (each plu				170	۲ŀ						
Slurry	/ Vo	lume To Be Pu	umped (cu. ft.)				201							
Calcu	late	d Top of Plug	(ft.)				2							
		Top of Plug (	if tagged ft.)				17.0							
		t. (Lb./Gal.)	Material (Class	IIIV			15.6	╬						
Туре	Cen				DEDEODAT	ED INTE	V	ND IN	TEDVALG	WHERE CAS	INC WILL BE	VARIED (if		
		From	ST ALL OPEN H	OLE AND/OF	To	ED INTE	INVALS A	ND IN	IERVAL	From	ING WILL BE	VARIED (II a	To	
0				2304										
Mai	or	ا النبد اميرا	e measured	d prior to	ahandon	mont	Casing	will	ho noi	forated fr	om FO for	at above i	water leve	N to
		n of casing.		a prior to	abanuon	ment.	Casing	VVIII	ne hei	iorateu ir	om so rec	et above v	water leve	110
_		d Cost to Plug												
\$10			vveiis											
, ,	J, <u>1</u>	20												
i						(	Certific	atio	n					
i	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the													
i	info	ormation is tru	ie, accurate, an	id complete.	. I am aware	that th		-	-		-			9
1	pos	ssibliity of fine	and imprisoni	ment. (Ref.	40 CFR 144.3	32)								
	_	d Official Title mel, Hydrolog	me and Official Title (Please type or print)  Signature  Date Signed											

<b>⊘</b> □	r <del>A</del>		PL	.UGGIN	NG AN	D AB	41	IDON	ΜE	NT PL	AN				
	d Address of F									ss of Owner					
	LSIOR MININ									MINING C L, 2999 N		STE 300, PH	IOENIX, A	Z 85018	
	cate Well and C				State AZ				Cou	inty chise		Permit TBD	Number		
360	LIOII FIAL - 040 A				Surface I	Location [	Des	cription							
	<del>                                     </del>	N T	$\neg$		1/4	of <u>nw</u> 1/4	4 of	<u>ne</u> 1/4 c	of S	W 1/4 of	Section 31	Township	15S Range	23E	
	<u> </u>	_	_		Locate w	ell in two	dir	ections fro	om n	nearest line	s of quarter	section and	drilling unit		
					Surface										
	T — F T				Location	199 ft. fr	m (	N/S) N	Line	e of quarter	section				
_		$ \vdash$ $\dashv$ $ \vdash$			and <u>1196</u>					quarter sec	tion.				
w	<del>-   -   -   -   -   -   -   -   -   -  </del>		<del></del>	E				THORIZAT	TION				ACTIVITY		
	$\bot$ $\bot$ $\bot$ $X$ $\bot$	_				ividual Pe a Permit	rmi	t			CLA				
			ļ ļ		Rul							ss II Brine Dispos	al		
	<b>+</b>						1	_				nhanced Re			
	<u> </u>	_			Numbe	Number of Wells 1 Hydrocarb							Storage		
		1 1									CLASS III				
		S			Lease Name					Well Number 55-225093, CS-09					
	CA	SING AND TUE	ING RECO	RD AFTER	PLUGGING					METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT	) ТО ВЕ	LEFT IN W	FT IN WELL (FT) HOLE SIZE									
NA	Unknown	0		0		3.5 The Dump Bailer Method									
						The Two-Plug Method									
						Other									
						ı		1	_				1	1	
0:		TO PLUG AND				PLUG #	i1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
	Hole or Pipe in			a (inche		3.5 2337	_		╬						
	Cement To Be					132			Ħ						
Slurry V	olume To Be Pu	ımped (cu. ft.)				156									
Calculate	ed Top of Plug	(ft.)				2									
	d Top of Plug (	if tagged ft.)				15.0	_								
	/t. (Lb./Gal.) ment or Other N	Natorial (Class	III			15.6	_		╬						
Туре Сег				D DEDEOE	DATED INT	V	ND	INTERVAL	- N	VILEBE CAS	INC WILL BE	VARIED (if			
	From	ST ALL OPEN H	JEE AND/C	To		LIVALS A	1110	INTERVAL		rom	WAS ANITE BE	- AVIVIED (ILS	To		
0			2337										-		
Water	r level will b	e measuro	d prior +	o ahand	onmont	Cacino	T 14	ill ha na	orfo	orated fr	om 50 for	at ahove s	water love	al to	
	m of casing.		a prior ti	o abaliu	omnent	Casiiib	5 VV	in ne he	CIIU	oraceu III	או אט ופו	ci above i	water leve	., 10	
_	ed Cost to Plug														
\$16,3															
710,5															
						0 415									
						Certific	at	ion							
	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the														
int	formation is tru	ie, accurate, an	d complet	e. I am aw	are that th		-	-			_			•	
	ssibliity of fine		-	r. 40 CFR 1	-										
	d Official Title		r print)		Sig	nature							Date Signed	<u> </u>	
VII KU	hnel, Hydrolog	gy ivianager													

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<b>V</b>		A			P	LUGGI	NG AN	ID AB	A۱	NDON	ME	ENT PL	AN			
		Address										ss of Owner				
		SIOR M SON PR		NG CORP								MINING C L, 2999 N		TE 300, PF	IOENIX, A	Z 85018
		ate Well a		outline Unit	on		State AZ					unty ochise		Permit TBD	Number	
_		ion riat -	040 7	N		_	Surface	Location	Des	cription						
Г		1 1			1 1	7	1/4	of se 1/	4 of	<u>nw</u> 1/4 c	of S	SW 1/4 of	Section 31	Township	15S Range	23E
_		⊥ _	 	_	-	-	Surface Location	686 ft. f	rm (	(N/S) N	Line	nearest line e of quarter f quarter sec	section	section and	drilling unit	
w -		 <del>                                  </del>	 			E		TYPE O	F AL	JTHORIZAT	TION	I		WELL A	ACTIVITY	
		i_L	1	L_i_		_		ividual Pe	ermi	it			CLA			
		$\mathbf{X}$			$\neg \Box \neg \Box$		✓ Are	a Permit					CLA	SS II Brine Dispos	a.l	
-		<u>+-</u>  -	+-	- <b> </b> - † -	-	-			4					inhanced Re		
-		<u> </u>	<u></u> -	-⊩	-	-	Numbe	r of Wells	; 1					lydrocarbon		
					 								CLA	SS III	-	
				S			Lease Na	ame					Well Num	55-225	094, CS-10	
			CA	SING AND	UBING REC	ORD AFTER						METH	OD OF EMPI	ACEMENT O	F CEMENT P	LUGS
SIZE		WT (LB/		Г	T IN WELL (		LEFT IN V			HOLE SIZ	E	_				
NA		Unknow	_	0		0		( /	_	3.5		=	Balance Me Dump Bail			
	Ħ										$\equiv$	=	Two-Plug N			
												Oth	-			
					ND ABANDO			PLUG	#1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
					Will Be Plac	ced (inche		3.5	_		4					
				ing or Drill Used (each				1656 94	_		=					
				ımped (cu. 1				111	_		=#					
_		d Top of I		• •				2			Πİ					
Measu	red	Top of P	lug (i	if tagged ft.)	1											
-		. (Lb./Gal	•					15.6								
Type C	em	ent or Ot	her N	laterial (Cla	ss III)			V								
			LIS	T ALL OPE	HOLE AND	O/OR PERFO	RATED INT	ERVALS A	AND	INTERVAL	LS V	WHERE CAS	ING WILL BE	VARIED (if a	any)	
		Fro	om		1050	То	)				F	From			То	
0					1656											
		level w າ of cas			red prior	to aband	onment	:. Casin <sub>{</sub>	g w	vill be pe	erfo	orated fro	om 50 fee	et above v	water leve	el to
Estima	itec	l Cost to	Plua	Wells												
\$11																
i	atta info	chments ormation	and is tru	that, based e, accurate	on my inqu , and compl	iry of those	lly examin individual vare that th	s immedia	n far ately	miliar with y responsi	ible	for obtaining	g the inforn	in this docu nation, I beli nformation,		•
Name	and	l Official	Title	(Please typ	e or print)		Sig	nature							Date Signed	i
Vit K	uh	nel, Hyd	rolog	gy Manage	r											

V		PA		PL	UGGIN	NG AN	D ABA	NDO	NN	1EN	IT PL	AN			
EXC	CEI	d Address of Fa LSIOR MININ ISON PROJE	NG CORP					EXCEL	SIO	R MI	NING C		TE 300, PH	OENIX, AZ	Z 85018
		ate Well and O				State AZ				County Cochi			Permit TBD	Number	
-	566	iioii Fiat - 040 A		<del></del>		Surface I	_ocation D	escriptio	n						
ſ		1 1 1	N I			1/4	of SW 1/4	of <u>nw</u>	1/4 of	sw	1/4 of	Section 31	Township	15S Range	23E
	 	⊥ _	_	-		Surface Location	ell in two c	n (N/S)	N_ı	ine of	f quarter	section	section and	drilling unit	
						and 200	TYPE OF				Jailer Sec	11011.	WELL A	CTIVITY	
w		1 1 1	1 1	i	E	Indi	vidual Per					CLAS			
	<u> </u>	<u> </u>	_			✓ Area	a Permit					CLA	SS II		
	X	<u> </u>	<b>-  - ⊹</b>  -	-		Rul	е					E	Brine Disposa	al	
		<u>i_i_i</u>	_ L_i_i	i		Numbe	r of Wells	1					nhanced Re	•	
		T T T		<u> </u>			_						lydrocarbon	Storage	
		1 1 1	S										SS III	205 00 11	
						Lease Na	me					Well Num	55-2250	J95, CS-11	
		CA	SING AND TUB	ING RECO	RD AFTER	PLUGGING	G				METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	:	WT (LB/FT)	TO BE PUT IN	WELL (FT	TO BE	LEFT IN W	/ELL (FT)	HOLE	SIZE		✓ The	Balance Me	thod		
NA		Unknown	0		0			3.5		4	The	Dump Baile	er Method		
	4				_					4	The	Two-Plug N	lethod		
	=									+	Oth	er			
		CEMENTING	TO PLUG AND	ARANDON	ΠΑΤΑ·		PLUG #1	PLU	G #2	PI	LUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size o	of H		which Plug Wil				3.5	1 20		1	200 #0	1200 #4	1.200 #6	1 200 %0	1200 #1
			ing or Drill Pip				2084								
Sacks	of	Cement To Be	Used (each plu	g)			118								
		lume To Be Pu					139								
		d Top of Plug					2			4					
		Top of Plug (i	if tagged ft.)				15.0			4					
		t. (Lb./Gal.)	Material (Class I	II)			15.6	-		╬					
Туре	Cen				OD DEDEOE	ATED INT	V	ID INTER	N/A1	C WILL	EDE CAC	NC WILL DE	VADIED (if a		
		From	T ALL OPEN H	JLE AND/C	To		ERVALS AF	ID IN I ER	VAL	Fro		ING WILL BE	VARIED (II a	To	
0				2084											
14/5	<b>.</b>	ما النب المتحمل		al .a.u.i a.u. 4			· Casina	ما النيب		£	_ L _ d £		- <b>-</b> -		احداد
		n of casing	e measure	u prior i	lo aband	onmeni	i. Casing	WIII D	e pe	riora	ated II	om so ie	et above v	water leve	110
1															
		d Cost to Plug 88	vveiis												
ا ا	+,5	00													
	att inf	achments and ormation is tru	e penalty of law that, based on le, accurate, an e and imprisonr	my inquir d complet	y of those i e. I am aw	ly examine individuals are that th	s immediat	familiar v ely resp	onsik	le for	r obtainin	g the inforn	nation, I belie	eve that the	•
Name	an	d Official Title	(Please type o	r print)		Sign	nature							Date Signed	
Vit l	Kuł	nel, Hydrolog	gy Manager												

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<b>(</b>		A		PI	LUGGII	NG AN	D AB	٩N	IDON	MEN	T PL	AN			
		d Address of F						Nar	me and Ad	dress o	f Owner	/Operator			
		SIOR MININ							XCELSIC ONCORE				TE 300, PH	IOENIX, AZ	Z 85018
		ate Well and O	Outline Unit on			State AZ	•			County Cochis			Permit TBD	Number	
-	360	11011 Flat - 040 F			-	Surface	Location [	Des	cription						
		1 1 1	N I		7	1/4	of SW 1/4	4 of	SW 1/4 o	f <u>nw</u> 1	1/4 of	Section 31	Township	15S Range	23E
		<u> </u>	_			Locate w	ell in two	dir	ections fro	om near	rest line	s of quarter	section and	drilling unit	
						Surface									
		+					199 ft. fr	m (	N/S) N	Line of	quarter	section			
	X	+	_			and <u>203</u>	ft. from (l	E/W	) W Lin	e of qua	arter sec	ction.			
w	А			_	E				THORIZAT	ION				ACTIVITY	
		ـ لُـــاً ـــ لُــ	_				ividual Pe	rmi	t			CLAS			
						V Are	a Permit					L CLAS	SS II Brine Dispos	. I	
	_	<u> </u>	<b>-  - + -</b>  -	-+-					_				nhanced Re		
		<u> </u>	_			Numbe	r of Wells	1					lydrocarbon	-	
				<u> </u>									SS III		
			S			Lease Na	ma					Well Numl	55-224	159, CS-13	
		CA	SING AND TUB	ING REC	ORD AFTER						METH			F CEMENT PI	LUGS
SIZE	<u> </u>	WT (LB/FT)	TO BE PUT IN	WELL (F	т) то ве	LEFT IN W	/ELL (FT)	T	HOLE SIZI	 E	✓ The	Dalama Ma	411		
NA		Unknown	0		0			1 3	3.5			Balance Me Dump Baile			
1112										Ħ	=	Two-Plug N			
											Oth	_			
		CEMENTING	TO PLUG AND	ABANDON	N DATA:		PLUG #	<b>‡1</b>	PLUG #2	PLU	UG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wil		ed (inche		3.5								
_			ing or Drill Pip				1251	_		4					
		lume To Be Pu	Used (each plu	·g)			71 84	_							
		d Top of Plug					2	_		-					
		Top of Plug (i					L	_		-					
		. (Lb./Gal.)					15.6								
Туре	Cen	nent or Other N	/laterial (Class I	II)			V								
		LIS	T ALL OPEN H	OLE AND/	OR PERFOR	RATED INT	ERVALS A	ND	INTERVAL	S WHE	RE CASI	ING WILL BE	VARIED (if a	ıny)	
		From			То	)				Fron	n			То	
0				1251											
Wa	ter	level will b	e measure	d prior	to aband	lonment	. Casing	3 W	/ill be pe	erfora	ted fr	om 50 fee	et above v	water leve	el to
bot	tor	n of casing	•												
Estim	ate	d Cost to Plug	Wells												
\$8,	75	7													
	atta infe	achments and ormation is tru	e penalty of law that, based on le, accurate, an e and imprison	my inqui nd comple	ry of those te. I am av	lly examine individuals vare that th	s immedia	fan	niliar with / responsi	ble for d	obtainin	g the inform	nation, I beli	eve that the	•
Name	and	d Official Title	(Please type o	r print)		Sig	nature							Date Signed	ı .
Vit 1	Kuh	nel, Hydrolog	gy Manager												

V		A		Pl	_UGGII	NG AN	D AB	A۱	NDONI	ME	ENT PL	AN			
		Address of F									ess of Owner				
		SIOR MININ									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018
		ate Well and O	Outline Unit on			State AZ					unty ochise		Permit TBD	Number	
-	000	iioii riat - 040 A				Surface I	Location I	Des	cription						
		1 1 1	N T	1	]	1/4	of SW 1/	4 of	SW_ 1/4 c	of I	NW 1/4 of	Section 31	Township	15S Range	23E
		⊥ _	_	_ <del> </del> _   - <del> </del> _		Surface						·	section and	drilling unit	
		<u> </u>	_	_							ie of quarter f quarter sec				
w	X			_	E				JTHORIZAT	ΓΙΟΝ	1			ACTIVITY	
		<u> </u>	_				ividual Pe a Permit	ermi	it			CLA			
						Rul						L CLA	ss II Brine Dispos	al	
		+	-   <del> </del> -	-+-				4	_				inhanced Re		
		<u> </u>	_			Numbe	r of Wells	1					lydrocarbon		
				ļ									SS III		
			S			Lease Na	me					Well Num	55-224	160, CS-14	
		CA	SING AND TUE	ING RECO	ORD AFTER	PLUGGIN	G				METH	OD OF EMPI	ACEMENT O	F CEMENT P	LUGS
SIZE		WT (LB/FT)	TO BE PUT IN	WELL (F	т) то ве	LEFT IN W	/ELL (FT)		HOLE SIZ	Ε	✓ The	Balance Me	ethod		
NA		Unknown	0		0			4	4		=	Dump Bail			
											=	· · Two-Plug N			
								] [			Oth	er			
							1						1		1
Sizo	√f H		TO PLUG AND which Plug Wil				PLUG #	<b>#1</b>	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			oing or Drill Pip		su (mone		1375	_		=					
			Used (each plu				102	_							
Slurry	/ Vo	lume To Be Ρι	ımped (cu. ft.)				120								
Calcu	late	d Top of Plug	(ft.)				2								
Meas	urec	l Top of Plug (i	if tagged ft.)												
_		. (Lb./Gal.)					15.6								
Type	Cen	nent or Other N	laterial (Class	II)			V								
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		level will b n of casing.	e measured	l prior t	o aband	onment	. Casing	g w	∕ill be pe	erf	orated fro	om 50 fe	et above v	water leve	el to
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Name	and	d Official Title	(Please type o	r print)		Sig	nature							Date Signed	
Vit 1	Kuh	nel, Hydrolog	gy Manager												

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S Lease Name												Well Num	55-225	096, CS-15	
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SIZI	CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  The Balance Method														
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	=							╬		$\dashv$	Oth	er			
		CEMENTING	TO PLUG AND	ABANDO	N DATA:		PLUG	#1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H	ole or Pipe in	which Plug Wil	I Be Place	ed (inche		5								
			ing or Drill Pip				492								
		Cement To Be lume To Be Ρι	Used (each plu	g)			67	_		_					
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Name	and	d Official Title	(Please type o	r print)		Sig	nature							Date Signed	l
Vit	Kuh	nel, Hydrolog	gy Manager												

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(V)		A		PL	UGGII	NG AN	D AB	٩N	IDON	ИE	NT PL	AN			
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		SIOR MINII ISON PROJE									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018
		ate Well and C	Outline Unit on			State AZ	•				inty chise		Permit TBD	Number	
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			which Plug Wil		d (inche		3.5								
			oing or Drill Pip				580								
			Used (each plu	ig)			33	_		4					
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Туре	Cen	nent or Other I	Material (Class	III)			V	ī							
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		level will b	e measured	d prior t	o aband	onment	. Casing	ţ W	ill be pe	erfo	orated fro	om 50 fee	et above v	vater leve	el to
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Name	and	Official Title	(Please type o	r print)		Sig	nature							Date Signed	
Vit F	Kuh	nel, Hydrolo	gy Manager												

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ŞEPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of 8e 1/4 of nw 1/4 of sw 1/4 of Section 31 Township 15S Range 23ELocate well in two directions from nearest lines of quarter section and drilling unit ft. frm (N/S) Line of quarter section Location ft. from (E/W) and Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II X Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-225098, CS-21 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method NA Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 3.5 Depth to Bottom of Tubing or Drill Pipe (ft 2171 Sacks of Cement To Be Used (each plug) 123 Slurry Volume To Be Pumped (cu. ft.) 145 Calculated Top of Plug (ft.) Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) Type Cement or Other Material (Class III) LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From То 2171 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing Estimated Cost to Plug Wells \$15,197 Certification I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the

Signature

Date Signed

## Vit Kuhnel, Hydrology Manager EPA Form 7520-14 (Rev. 12-11)

Name and Official Title (Please type or print)

possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

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	nd Address of F						Nar	me and Ad	ldres	s of Owner	/Operator			
	ELSIOR MINI NISON PROJE									MINING C L, 2999 N 4		TE 300, PH	IOENIX, A	Z 85018
	cate Well and (				State AZ	•			Cou	inty chise		Permit TBD	Number	
<u> </u>	ction Flat - 040				Surface L	ocation [	Des	cription						
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		Ļ_ֈ_ֈ	_		Locate w	ell in two	dir	ections fro	om n	nearest line	s of quarter	section and	drilling unit	
					Surface									
		X	-   -		Location	830 ft. fr	rm (	(N/S) S	Line	of quarter	section			
	^ ·	<b></b>			anc 1156	ft. from (l	E/W	/) W Lin	e of	quarter sec	ction.			
w L	<u> </u>			E		TYPE OF	AU	JTHORIZAT	ION			WELL A	ACTIVITY	
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	++	$ \vdash$ $+$ $ \vdash$	-+-		Rule							Brine Dispos Inhanced Re		
		_			Number	r of Wells	1					lydrocarbon	-	
												SS III	o.c.ugo	
		s			Lease Na						Well Num	55-225	099, CS-23	
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	CEMENTING	G TO PLUG AND	ABANDON [	DATA:		PLUG #	<b>‡1</b>	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in			(inche		3.5	_		_					
	o Bottom of Tul					622 32	<u> </u>		#					
	of Cement To Be Volume To Be P		9)			41.56	_		#					
	ted Top of Plug	_ ` ` `				2	=		٦ŀ					
	ed Top of Plug (													
Slurry \	Vt. (Lb./Gal.)					15.6								
Type Ce	ement or Other I	Material (Class	II)			V								
	LIS	ST ALL OPEN H	OLE AND/O	R PERFORA	ATED INTE	ERVALS A	ND	INTERVAL	LS W	HERE CAS	ING WILL BE	VARIED (if a	iny)	
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Wate	r level will b	e measure	prior to	abando	nment	. Casing	g w	/ill be pe	erfo	orated fro	om 50 fee	et above v	water leve	el to
botto	m of casing													
Estimat	ed Cost to Plug	Wells												
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a ir	certify under th ttachments and iformation is tro ossibliity of find	that, based on ue, accurate, ar	my inquiry id complete	of those in	/ examine idividuals ire that th	immedia	far itely	miliar with y responsi	ible f	for obtainin	g the inforn	nation, I beli	eve that the	
Name a	nd Official Title	(Please type o	r print)		Sign	nature							Date Signed	l
Vit Kı	ıhnel, Hydrolo	gy Manager												

OMB No. 2040-0042 Approval Expires 11/30/2014

<b>♥EFA</b>		PLU	GGING	ANE	) ABAI	NDON	MENT	ΓPL	AN			
Name and Address of I	acility				Na	me and Ac	dress of	f Owner	/Operator			
EXCELSIOR MINI GUNNISON PROJ						XCELSIO CONCORI			ORP 14TH ST, S	ГЕ 300, РН	OENIX, AZ	Z 85018
La cada Wall and	0411		St	ate			County			Permit	Number	
Locate Well and Section Plat - 640			A	λZ			Cochis	se		TBD		
	N		Sı	_	ocation Des					_		
				1/4 of	f <u>se</u> 1/4 o	f <u>ne</u> 1/4 (	of <u>SW</u> 1/	/4 of	Section 31	Township	15S Range	23E
<b>I</b> ⊢਼∔−,⊢઼∔	<b></b>		Lo	cate we	II in two di	rections fr	om neare	est line	s of quarter	section and	drilling unit	
		_	Su	ırface								
	<b>I</b> ; ;		Lo	cation 6	65 ft. frm	(N/S) N	Line of o	quarter	section			
	- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$		an		t. from (E/V		e of qua	rter sec	ction.			
l w <del>- i i i</del>		E			TYPE OF A		TION				CTIVITY	
	_L_i_i			_	idual Perm	it			CLAS			
	$\mathbf{x}$		l L	✓ Area					CLAS			
<b> </b>	<u> </u>	-+-	L	Rule	_					rine Disposa nhanced Re		
l			1	Number	of Wells $\boxed{1}$					ydrocarbon	•	
									CLAS		o.o.ugo	
	S		ا	ease Nam	10				Well Numb	55-225	100, CS-41	
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMEN											F CEMENT PL	.UGS
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4 Unknown	448	( )	448			4	7		Balance Me			
							<b>=</b>		Two-Plug M			
								Oth	_			
CEMENTIN	G TO PLUG AND	ABANDON DA	ATA:		PLUG #1	PLUG #	2 PLU	JG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in			inche		4							
Depth to Bottom of Tu					448		4					
Sacks of Cement To Be Slurry Volume To Be P		(g)			33	1	_					
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Measured Top of Plug					<u>د</u>							
Slurry Wt. (Lb./Gal.)	, ,				15.6							
Type Cement or Other	Material (Class	II)			V							
LI	ST ALL OPEN H	OLE AND/OR	PERFORAT	ED INTE	RVALS AND	INTERVA	LS WHER	RE CASI	ING WILL BE	VARIED (if a	ny)	
From			То				From	1			То	
Water level will l	oe measured	prior to	abandon	ment.	Casing v	vill be pe	erforat	ted fro	om 50 fee	t above v	vater leve	l to
bottom of casing	<u>.                                    </u>					,						
Estimated Cost to Plug	g Wells											
\$3,136												
				(	Certificat	tion						
					, or unioa							
I certify under th attachments and				xamined	l and am fa							
attachments and information is tr	l that, based on ue, accurate, an	my inquiry o d complete.	f those indi I am aware	xamined ividuals that the	I and am fa immediatel	y respons	ible for o	btainin	g the inform	ation, I belie	ve that the	
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OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of  $\underline{SW}$  1/4 of  $\underline{Se}$  1/4 of  $\underline{SW}$  1/4 of Section  $\underline{31}$  Township  $\underline{15S}$  Range  $\underline{23E}$ Locate well in two directions from nearest lines of quarter section and drilling unit Location 20 ft. frm (N/S) S Line of quarter section and  $\underline{867}$  ft. from (E/W)  $\underline{E}$  Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-225101, CS-51 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) **HOLE SIZE**  ▼ The Balance Method NA Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche Depth to Bottom of Tubing or Drill Pipe (ft 1838 Sacks of Cement To Be Used (each plug) 189 Slurry Volume To Be Pumped (cu. ft.) 160 Calculated Top of Plug (ft.) Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) Type Cement or Other Material (Class III) LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From То 1838 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing. Estimated Cost to Plug Wells \$12,866

#### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

<b>⊘</b> □	ГА		PI	LUGGIN	NG AN	D AB	41	IDON	MENT P	_AN			
	d Address of F						Nan	ne and Ad	dress of Own	er/Operator			
	LSIOR MININ								OR MINING OPL, 2999 N		STE 300, P	HOENIX, A	Z 85018
	cate Well and C				State AZ				County Cochise		Permit TBD	Number	
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<b>l</b>	<u> </u>	_   -			Locate w	ell in two	dire	ections fro	om nearest li	nes of quarte	r section and	d drilling unit	
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w —			Ì	E				THORIZAT	ION			ACTIVITY	
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					Rul						Brine Dispos	sal	
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	<u>i i i</u>	<u> </u>	i								ASS III		
		S			Lease Na	me				Well Nun	nber 55-225	5068, DC-09	
	CA	SING AND TUB	ING REC	MET	HOD OF EMP	LACEMENT (	OF CEMENT P	LUGS					
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							Ļ		т	he Two-Plug	Method		
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	CEMENTING	TO PLUG AND	ARANDON	I DATA:		PLUG #	1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in					4		. 200 #2	. 1200 #0	1 200 #4	1 200 %0	1 200 #0	1 200 #1
	Bottom of Tub			•		1500							
Sacks of	Cement To Be	Used (each plu	ıg)			111							
	olume To Be Pu					131							
	ed Top of Plug d Top of Plug (					2	_						
	/t. (Lb./Gal.)	ii taggeu it.)				15.6	=					1	
_	ment or Other N	Material (Class	III)			V	=						
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Water	· level will b	e measured	d prior t	o abando	onment	. Casing	W	ill be pe	rforated f	rom 50 fe	et above	water leve	el to
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	ertify under the				ly examine		fan	niliar with					
int	tachments and formation is tru essibliity of fine	ie, accurate, an	d comple	te. I am aw	are that th		_			-			е
Name an	nd Official Title	(Please type o	r print)		Sign	nature						Date Signed	1
Vit Ku	hnel, Hydrolog	gy Manager											

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<b>⊗</b> E	ΓA		PL	UGGIN	IG AN	D AB	٩N	IDONI	ME	NT PL	AN			
	d Address of F						Nar	ne and Ad	ddres	ss of Owner	/Operator			
	LSIOR MININ									MINING C L, 2999 N 4		TE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ					inty chise		Permit TBD	Number	
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OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of  $\underline{SW}$  1/4 of  $\underline{SW}$  1/4 of  $\underline{SW}$  1/4 of Section  $\underline{31}$  Township  $\underline{15S}$  Range  $\underline{23E}$ Locate well in two directions from nearest lines of quarter section and drilling unit Location 24 ft. frm (N/S) S Line of quarter section and 30 ft. from (E/W) W Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-225105, J-06 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) **HOLE SIZE**  ▼ The Balance Method NA Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche Depth to Bottom of Tubing or Drill Pipe (ft 937 Sacks of Cement To Be Used (each plug) 70 Slurry Volume To Be Pumped (cu. ft.) 82 Calculated Top of Plug (ft.) 2 Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) 15.6 Type Cement or Other Material (Class III) LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From From То 937 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing. Estimated Cost to Plug Wells

#### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Signature	Date Signed
	Signature

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Locate Well and Outline Unit on Section Plat - 640 Acres  State AZ										County					Permit TBD	Permit Number					
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	Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)																	
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	PLUGGING AND ABANDONMENT PLAN																				
	Name and Address of Facility EXCELSIOR MINING CORP											Name and Address of Owner/Operator EXCELSIOR MINING CORP									
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<b>⊘</b> □	FA		PI	LUGGII	NG AN	D AB	٩N	IDON	MEN	IT PL	AN			
	d Address of F						Nar	me and Ad	dress c	of Owner	/Operator			
	LSIOR MININ							XCELSIC ONCORE				TE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ				County Cochi			Permit TBD	Number	
360	Stion Flat - 040 A			-	Surface I	Location D	Des	cription						
	<del>                                     </del>	N T		1	1/4	of ne 1/4	4 of	<u>ne</u> 1/4 o	f se	1/4 of	Section 36	Township	15S Range	22E
	<u> </u>	_			Locate w	ell in two	dir	ections fro	om nea	rest line	s of quarter	section and	drilling unit	
		_	_		Surface									
			l I		Location	460 ft. fr	rm (	n/s) N	Line of	f quarter	section			
	<u> </u>	╼┠╌┽╼╏	$-\dagger$		and <u>429</u>			/) E Lin		arter sec	tion.			
w	<del>-                                     </del>		<del>-  </del> -	E	l			THORIZAT	ION		l 🗆		ACTIVITY	
	1_L1.	_	_ <u>_ X</u>			ividual Pe a Permit	rmi	t			CLAS			
			ļ		Rul							ss II Brine Dispos	al	
	<b>+</b>		- + -				1					nhanced Re		
		_			Numbe	r of Wells	1				П	lydrocarbon	Storage	
			I I	J							CLAS	SS III		
		S			Lease Na	me					Well Num	ber 55-225	070, JS-05	
	CA	SING AND TUE	ING REC	ORD AFTER	PLUGGIN	G				METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (F	т) то ве	LEFT IN W	/ELL (FT)	Т	HOLE SIZI	E	✓ The	Balance Me	.th.a.d		
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		TO PLUG AND				PLUG #	<u>‡1</u>	PLUG #2	2 PL	_UG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in Bottom of Tub			ed (inche		4.5 588	_		4					
	Cement To Be					55	=		₩					
	olume To Be Pu	<u> </u>	<u> </u>			65								
Calculat	ed Top of Plug	(ft.)				2								
Measure	d Top of Plug (	if tagged ft.)												
_	/t. (Lb./Gal.)					15.6	_		4					
Type Ce	ment or Other N					V								
	From	ST ALL OPEN H	OLE AND/	OR PERFOR		ERVALS A	ND	INTERVAL	S WHE		NG WILL BE	VARIED (if a	To	
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									_	. 16	506			
	r level will b		roing t	to aband	onment	. Casing	g W	ıll be pe	ertora	ated fro	om 50 fee	et above v	water leve	elto
	m of casing.													
	ed Cost to Plug	Wells												
\$4,13														
ati in	ertify under the tachments and formation is tru essibliity of fine	that, based on ie, accurate, an	my inqui Id comple	ry of those te. I am aw	lly examine individuals vare that th	s immedia	fan itely	niliar with / responsi	ble for	obtainin	g the inforn	nation, I beli	eve that the	e
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	nd Official Title hnel, Hydrolog		r print)		Sig	nature							Date Signed	
VIC IXU	ci, 11yu1010	5) Manager												

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of <u>ne</u> 1/4 of <u>ne</u> 1/4 of <u>se</u> 1/4 of <u>se</u> 1/4 of Section <u>36</u> Township <u>15S</u> Range 22E Locate well in two directions from nearest lines of quarter section and drilling unit Location 551 ft. frm (N/S) N Line of quarter section and  $\underline{406}$  ft. from (E/W)  $\underline{E}$  Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS X ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-225071, JS-06 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) **HOLE SIZE**  ▼ The Balance Method NA Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 4.5 Depth to Bottom of Tubing or Drill Pipe (ft 599 Sacks of Cement To Be Used (each plug) 56 Slurry Volume To Be Pumped (cu. ft.) 66 Calculated Top of Plug (ft.) 2 Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) Type Cement or Other Material (Class III) LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From То 599 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing. Estimated Cost to Plug Wells \$4,193

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

**\$EPA** 

<b>⊘</b> □	FA		PL	UGGIN	IG AN	D AB	A١	IDON	ME	NT PL	AN			
	d Address of F									ss of Owner	•			
	LSIOR MININ									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ					unty ochise		Permit TBD	Number	
360	2001 F 1at - 040 A				Surface L	ocation I	Des	cription						
	1 1 1	N i i	1		1/4 0	of <u>ne</u> 1/4	4 of	<u>ne</u> 1/4 c	of S	e1/4 of	Section 36	Township	15S Range	22E
	<u> </u>	_	_		Locate w	ell in two	dir	ections fro	om r	nearest line	s of quarter	section and	drilling unit	
					Surface									
	T — F T		- <del></del> -		Location	375_ft. fi	rm (	N/S) N	Line	e of quarter	section			
	<u> </u>				and $\underline{420}$	ft. from (	E/W	/) E Lin	e of	quarter sec	tion.			
w —			i	E	]			THORIZAT	ION				ACTIVITY	
	1_L1.	_	_ <u>X</u>			vidual Pe	rmi	t			L CLA			
			1		Rul	a Permit					CLA	SS II Brine Dispos	-1	
	++		-+-				_	_				inhanced Re		
	<u> </u>	_			Numbe	r of Wells	1					lydrocarbon		
												SS III	o.o.ugo	
		s			1 N-						Well Num	55-225	072, JS-07	
	CA	SING AND TUE	ING RECO	RD AFTER	Lease Na				T	METH			F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (F	г) то ве	LEFT IN W	ELL (FT)		HOLE SIZI	E	✓ The	Balance Me	. 4 la. a. al		
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							Ī		$\exists$	=	Two-Plug N			
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	CEMENTING	TO PLUG AND	ABANDON	I DATA:		PLUG #	<b>#1</b>	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	lole or Pipe in			d (inche		4.5								
	Bottom of Tub					~369	_		4					
	f Cement To Be olume To Be Ρι		ig)			<b>45 53</b>	_		4					
	ed Top of Plug	· · · ·				2	_		=#					
	d Top of Plug (					2			Ħ					
	/t. (Lb./Gal.)					15.6								
Type Ce	ment or Other N	Material (Class	III)			V								
	LIS	ST ALL OPEN H	OLE AND/	OR PERFOR	ATED INTE	ERVALS A	AND	INTERVAL	LS W	VHERE CAS	ING WILL BE	VARIED (if a	any)	
	From			То					F	From			То	
Water	r level will b	e measure	d prior t	o abando	onment	. Casing	ξW	ill be pe	erfo	orated fr	om 50 fe	et above v	water leve	el to
	m of casing.		•			·		·						H
Estimate	ed Cost to Plug	Wells												
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ati in	ertify under the tachments and formation is tru pssibliity of fine	that, based on ie, accurate, ar	my inquir d complet	y of those i te. I am aw	y examine ndividuals are that th	immedia	far ately	niliar with / responsi	ible	for obtainir	g the inforn	nation, I beli	eve that the	•
Name an	nd Official Title	(Please type o	r print)		Sign	nature							Date Signed	l
Vit Ku	hnel, Hydrolog	gy Manager												

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<b>⊘</b> L	:FA		PLl	JGGING	ANI	D ABA	٩N	IDON	MEN.	T PL	٩N			
	and Address of F							ne and Ad						
	ELSIOR MINII NISON PROJE							CELSIO ONCORE				TE 300, PH	IOENIX, AZ	Z 85018
	ocate Well and C				tate AZ				County Cochi:			Permit TBD	Number	
	ection Flat - 040 /			Sı	urface L	ocation D	)esc	cription						
Г	<del>                                      </del>	N I I			1/4 c	of <u>nw</u> 1/4	l of	SW_ 1/4 o	f SW	1/4 of	Section 31	Township	15S Range	23E
	-	- <b> </b> -   -   -   -   -   -   -   -	- <del> </del>	Su	urface ocation	843 ft. fr	m (l	N/S) S	Line of	quarter	section	section and	drilling unit	
l w L								THORIZAT				WELL A	ACTIVITY	
· · ·			E			vidual Pe	rmit	t			CLAS	SS I		
					<b>√</b> Area						CLAS			
-		$  \uparrow$ $ \uparrow$	$-\dot{+}- $		Rule	9						rine Dispos		
	<b>X</b> ⊥_∟⊥.	_			Number	of Wells	1					nhanced Re lydrocarbon	•	
												iyurocarbon SS III	Storage	
	1 1	S										55 994	940, NSD-0	01
					ease Nai						Well Numl	Jei		
	1	ASING AND TUE		1			1			METHO	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	I WELL (FT)	TO BE LE	FT IN W	ELL (FT)	_	HOLE SIZE	E	<b>✓</b> The	Balance Me	thod		
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Size of	Hole or Pipe in	which Plug Wil	l Be Placed	(inche:		4.5								
Depth t	to Bottom of Tul	oing or Drill Pip	e (ft			1506								
	of Cement To Be	· ·	ıg)			141								
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		ST ALL OPEN H		R PERFORAT	ED INTE	RVALS A	ND	INTERVAL	S WHE	RE CASI	NG WILL BE	VARIED (if a	inv)	
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	er level will b		d prior to	abandon	ment.	Casing	W	ill be pe	erfora	ted fro	om 50 fee	et above v	vater leve	l to
_	om of casing.													
	ted Cost to Plug	Wells												
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a i	certify under the attachments and anformation is tru cossibliity of fine	that, based on ue, accurate, ar	my inquiry on the complete.	of those indi	examine ividuals that the	immedia	fan tely	niliar with responsi	ble for	obtainin	g the inform	nation, I beli	eve that the	3
Name a	and Official Title	(Please type o	r print)		Sigr	nature							Date Signed	
Vit K	uhnel, Hydrolo	gy Manager												

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<b>(</b>		A		PL	.UGGII	NG AN	D AB	A۱	NDONI	ME	ENT PL	AN			
		d Address of F						Naı	me and Ad	ddre	ess of Owner	/Operator			
		SIOR MININ									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018
		ate Well and O	Outline Unit on			State AZ					unty ochise		Permit TBD	Number	
	<del>56</del> 6	iioii riat - 040 A				Surface I	Location I	Des	cription						
		1 1 1	N T			1/4	of SW 1/	4 of	SW 1/4 c	of _	SW_1/4 of	Section 31	Township	15S Range	23E
			-    -   -     -	- <del> </del>		Surface Location	256 ft. f	rm (	(N/S) S	Lin	nearest line ne of quarter of quarter sec	section	section and	drilling unit	
w			!!!		E				THORIZAT				WELL A	ACTIVITY	
· ·					_		ividual Pe	rmi	it			CLA	SS I		
		†		- <u>-</u> i -			a Permit					CLA		_	
		++		-+-		Rul	е						Brine Dispos		
	<u> </u>	<u> </u>	_	_		Numbe	r of Wells	1					inhanced Re Iydrocarbon		
	X												SS III	Otorage	
			s			Lease Na						Well Num	55-224	941, NSD-0	002
		CA	SING AND TUE	ING PECO	DD AETED						METH		Dei	F CEMENT P	
SIZ	= 1	WT (LB/FT)	TO BE PUT IN			LEFT IN W		T	HOLE SIZ	· E				r CEMIENT F	LUGS
4.5	_	Unknown	0	WELL (FI	560	LEFI IN W	VELL (FI)		1.5		=	Balance Me			
4.5	=	CIIKIIOWII	U		300				1.0	=	=	Dump Baile Two-Plug N			
								17			Oth	-	iletiiou		
		CEMENTING	TO PLUG AND	ABANDON	DATA:		PLUG #	<b>#1</b>	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wil		d (inche		4.5								
			ing or Drill Pip				1907	_							
		lume To Be Pu	Used (each plu	g)			179 211	_		_					
		d Top of Plug					2	_		=					
		Top of Plug (i					L			=					
		. (Lb./Gal.)					15.6								
Туре	Cen	nent or Other N	laterial (Class	II)			V								
		LIS	T ALL OPEN H	OLE AND/C	OR PERFOR	RATED INT	ERVALS A	AND	INTERVA	LS V	WHERE CAS	ING WILL BE	VARIED (if a	any)	
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560				1907											
		level will b	e measured	prior to	o aband	onment	. Casing	g w	ill be pe	erfo	orated fro	om 50 fee	et above v	water leve	el to
		d Cost to Plug													
	3,3		Wells												
	atta info	achments and ormation is tru	e penalty of law that, based on le, accurate, an e and imprisoni	my inquiry d complete	y of those e. I am aw	ly examine individuals vare that the	s immedia	far ately	miliar with y responsi	ible	for obtainir	ng the inform	nation, I beli	eve that the	÷
Name	and	d Official Title	(Please type o	r print)		Sia	nature							Date Signed	İ
		nel, Hydrolog													

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VL	IA		PLU	JGGIN	G AN	D ABA	NDON	MENT	PL	AN			
EXCE	d Address of Fa LSIOR MININ IISON PROJE	NG CORP					lame and A EXCELSI CONCOR	OR MINI	NG (	CORP	TE 300, PH	IOENIX, A	Z 85018
Loc	cate Well and C	outline Unit on			State AZ			County			Permit TBD	Number	
Sec	ction Plat - 640 A	Acres		<u> </u>		ocation D	escription	Cocinse	;		Тър		
_	<del></del>	N		li				of SW 1/	1 05	Section 31	Township	15S Range	23E
												drilling unit	
			- - - - -	:	Surface Location	10 ft. frn ft. from (E	n (N/S) S /W) W Li	Line of q	uartei	section	Section and	drilling unit	
w —	+ + +		<del>-  </del> E				AUTHORIZA	TION				ACTIVITY	
_	<b></b>	_				vidual Per a Permit	mit			CLA			
					Rule						ss II Brine Dispos	al	
	<b>+</b>					of Wells	1				nhanced Re		
	$\frac{1}{X}$	_			Numbei	r of Wells [	1			_ □ <b>-</b>	lydrocarbon	Storage	
	<b>X</b>	; ;	i							CLA	SS III		
		S			Lease Na	me				Well Num	ber 55-224	942, NSD-0	003
	CA	SING AND TUE	ING RECORI	D AFTER P	LUGGING	3			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE L	EFT IN W	ELL (FT)	HOLE SIZ	E .	<b>∠</b> Th	e Balance Me	ethod		
4.5	Unknown	0		563			4.5	4 [	_	e Dump Baile			
				1				<del>-  </del>	_	e Two-Plug N	lethod		
									_ Otl	ner			
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #1	PLUG #	2 PLU	G #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in	which Plug Wil	l Be Placed (	(inche		4.5							
-	Bottom of Tub					2008							
	Cement To Be olume To Be Pu		ig)			188 222							
	ed Top of Plug					2							
Measure	d Top of Plug (i	if tagged ft.)											
	/t. (Lb./Gal.)					15.6							
Type Ce	ment or Other N	laterial (Class	III)			V							
	LIS From	ST ALL OPEN H	OLE AND/OR	PERFORA To	ATED INTE	ERVALS AN	ID INTERVA	LS WHER From	E CAS	SING WILL BE	VARIED (if a	nny) To	
563	FIOIII		2008	10				FIOIII				10	
Water	· level will b n of casing.		d prior to	abando	nment.	Casing	will be p	erforate	ed fr	om 50 fee	et above v	vater leve	el to
-	d Cost to Plug												
\$14,0	)56												
at: in:	ertify under the tachments and formation is tru sssibliity of fine	that, based on ie, accurate, an	my inquiry o	of those in I am awa	examine dividuals re that th	immediat	familiar with ely respons	ible for o	otaini	ng the inforn	nation, I beli	eve that the	ð
	d Official Title		r print)		Sign	nature						Date Signed	<u> </u>
Vit Ku	hnel, Hydrolog	ov Manager											
	, <i>J</i>	gy ivialiagei											

<b>≫EPA</b>	PLUGGIN	NG AN	D ABAN	NDON	ME	NT PL	AN					
Name and Address of Facility						ss of Owner	•					
EXCELSIOR MINING CORP GUNNISON PROJECT						MINING C L, 2999 N		TE 300, PH	IOENIX, AZ	Z 85018		
Locate Well and Outline Unit on		State				unty			Number			
Section Plat - 640 Acres		AZ			Co	chise		TBD				
N			ocation Des		. [6	***	91	7	150 _	93E		
	ļ								15S Range			
			ell in two dir	ections fr	om r	nearest line	s of quarter	section and	drilling unit			
<b>│</b>	- + -	Surface	366 ft. frm	(N/S) S	Line	e of quarter	section					
<b>┃ ├</b> ╶┽╼┝╌┽╼┣╌┽╼┆			ft. from (E/V									
	E		TYPE OF AL	JTHORIZAT	TION			WELL A	ACTIVITY			
<b>l"</b>   i i i <b>l</b> i i			vidual Perm	it			CLAS					
	<del>-    </del>	✓ Area					CLAS					
<b>│</b>	-+-	Rule						rine Disposa nhanced Re				
<b>┃ ├</b> ऱे-┞-┼- <b>┠</b> -┼-┞		Number	of Wells 1					ydrocarbon	-			
							CLAS	•	Otorage			
s		Lease Nar	me				Well Numb	55-224	943, NSD-0	09		
CASING AND TUE	BING RECORD AFTER	PLUGGING	;			METH			F CEMENT PI			
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO BE	LEFT IN W	ELL (FT)	HOLE SIZ	E	✓ The	Balance Me	thod				
4.5 Unknown 0	620			4.5		=	Dump Baile					
						The	Two-Plug M	ethod				
						Oth	er					
				1	_				1	l		
CEMENTING TO PLUG AND Size of Hole or Pipe in which Plug Wil			PLUG #1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Depth to Bottom of Tubing or Drill Pip			1793		=#							
Sacks of Cement To Be Used (each plu			168									
Slurry Volume To Be Pumped (cu. ft.)			198									
Calculated Top of Plug (ft.)			2									
Measured Top of Plug (if tagged ft.)												
Slurry Wt. (Lb./Gal.)			15.6		-							
Type Cement or Other Material (Class			V					V4 DIED ///	,			
From	OLE AND/OR PERFOR		RVALS AND	INTERVA		From	ING WILL BE	VARIED (If a	To			
620	1793											
			Casina	ما الن	£ -		FO fo o			144		
Water level will be measured bottom of casing.	a prior to abando	onment.	Casing w	/iii be pe	erro	orated fro	om 50 ree	et above v	vater ieve	110		
Estimated Cost to Plug Wells \$12,551												
\$12,331												
			Certificat	ion								
	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the											
information is true, accurate, an possibliity of fine and imprison	•		ere are sign	ificant per	naltie	es for subm	itting false ii	nformation,	including the	•		
Name and Official Title (Please type o			nature					Г	Date Signed	1		
Vit Kuhnel, Hydrology Manager	трішу		nature						Date Signed			
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V		A		PL	.UGGII	NG AN	D AB	A۱	NDON	ИE	NT PL	AN			
		d Address of F									ss of Owner				
		SIOR MINII ISON PROJE									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018
		ate Well and C	Outline Unit on			State AZ					unty ochise		Permit TBD	Number	
-	0001	tion Flat - 040 /		<del></del>		Surface I	_ocation [	Des	cription						
		1 1 1	N T			1/4	of <u>ne</u> 1/4	4 of	SW 1/4 o	of S	<u>W</u> 1/4 of	Section 31	Township	15S Range	23E
		<u> </u>	_	_		Locate w	ell in two	dir	ections fro	om r	nearest line	s of quarter	section and	drilling unit	
						Surface									
		T —				Location	1222ft. fr	rm (	(N/S) S	Line	e of quarter	section			
		<u> </u>	$ \vdash$ $\dashv$ $ \vdash$			and <u>980</u>					quarter sec	tion.			
w		<del>                                     </del>		<del>-  </del> -	E				JTHORIZAT	ION				ACTIVITY	
		<u> </u>	_				vidual Pe a Permit	rmi	it			CLAS			
						Rul							ss II Brine Dispos	al	
		+ —   + ·		- + -				1					inhanced Re		
	_	<u> </u>	_			Numbe	r of Wells	1					lydrocarbon	-	
				l L								CLAS	SS III		
			S			Lease Na	me					Well Num	ber 55-224	944, NSD-0	11
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS											LUGS				
SIZE	: T	WT (LB/FT)	TO BE PUT IN	WELL (FT	то ве	LEFT IN W	/ELL (FT)		HOLE SIZE	E	✓ The	Balance Me	thad		
4.5		Unknown	0		650			4	1.5		=	Dump Baile			
											=	Two-Plug N			
											Oth	er			
							T		T	4			1	1	1
Ci-o	st ⊔.		TO PLUG AND				PLUG #	<b>#1</b>	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wil bing or Drill Pip		a (inche		6.25	_	3.75	=#					
			Used (each plu				117	_	51	Ŧ					
Slurry	/ Vo	lume To Be Pu	ımped (cu. ft.)				138		61						
Calcu	late	d Top of Plug	(ft.)				2		650						
		l Top of Plug (	if tagged ft.)												
		t. (Lb./Gal.)	Material (Class I	IIV			15.6	_	15.6	4					
туре	Cen				DD DEDEO	NATED INIT	V		V		WIEDE OAG	NO WILL DE	WARIED (IS	>	
		From	ST ALL OPEN H	OLE AND/C	To		ERVALS A	ND	INTERVAL		From	NG WILL BE	VARIED (IT 8	To	
~620	)			1440											
		ا النبد اميدا	e measure	d prior t	o aband	anmant	Cacina	7.14	ill bo po	orfo	orated fr	om EO for	ot abovo i	vator love	1 +o
		n of casing		a prior t	.o abanu	omment	Casiii	5 W	ill be be	2110	orateu iii	טווו טט ופי	et above	water leve	110
		d Cost to Plug						_							
	0,0		Wells												
71	0,0	00													
							Certific	at	ion						
			e penalty of law that, based on												
	info	ormation is tru	ie, accurate, an	d complet	e. Iam aw	are that th		-				-			•
	pos	ssibliity of fine	and imprisonr	nent. (Re	f. 40 CFR 1	44.32)									
			(Please type o	r print)		Sig	nature							Date Signed	
Vit	Kuh	mel, Hydrolo	gy Manager												

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of  $\underline{nw}$  1/4 of  $\underline{sw}$  1/4 of  $\underline{sw}$  1/4 of Section  $\underline{31}$  Township  $\underline{15S}$  Range  $\underline{23E}$ Locate well in two directions from nearest lines of quarter section and drilling unit Location 1174ft. frm (N/S) S Line of quarter section and 324 ft. from (E/W) W Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-224945, NSD-019 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 4.5 Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 4.5 Depth to Bottom of Tubing or Drill Pipe (ft 1454 Sacks of Cement To Be Used (each plug) 136 Slurry Volume To Be Pumped (cu. ft.) 161 Calculated Top of Plug (ft.) Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) 15.6 Type Cement or Other Material (Class III) LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From From То 1454 620 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing Estimated Cost to Plug Wells \$10,178 Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

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	nd Address of F									s of Owner	•			
	LSIOR MINII NISON PROJE									MINING C L, 2999 N 4		TE 300, PF	IOENIX, A	Z 85018
	cate Well and C				State AZ				Cou	inty chise		Permit TBD	Number	
<u> </u>	ction i lat - 040 /	N			Surface L	ocation I	Des	cription						
	1 1 1				1/4	of <u>nw</u> 1/	4 of	<u>se</u> 1/4 c	of S	W_1/4 of	Section 31	Township	15S Range	23E
<u> </u>	<u> </u>	_			Locate w	ell in two	dir	ections fro	om n	nearest line	s of quarter	section and	drilling unit	
			_		Surface									
										of quarter				
	<u> </u>	╼┠╌┽╼╏	$-\dagger$		and <u>934</u>					quarter sec	tion.			
w <b>–</b>	<del>-                                     </del>		<del></del>	E	П			THORIZAT	ION				ACTIVITY	
		_				vidual Pe a Permit	rmi	t			CLA			
					Rul							ss II Brine Dispos	al	
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											CLA	SS III		
		S			Lease Na	me					Well Num	ber 55-224	946, NSD-0	20
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT P											LUGS			
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)		HOLE SIZI	E	✓ The	Balance Me	thad		
4.5	Unknown	0		660			4	1.5		=	Dump Baile			
										=	Two-Plug N			
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		TO PLUG AND				PLUG #	¥1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in Bottom of Tuk			d (inche		4.5 660	_		4					
	f Cement To Be					62	_		#					
	olume To Be Pu	<u> </u>	-5/			73	=		=					
	ed Top of Plug	<u> </u>				2								
Measure	d Top of Plug (	if tagged ft.)												
_	/t. (Lb./Gal.)					15.6								
Type Ce	ment or Other N	Material (Class	III)			V								
		ST ALL OPEN H	OLE AND/O		ATED INTI	ERVALS A	AND	INTERVAL			ING WILL BE	VARIED (if a		
	From			То					F	rom			То	
	r level will b		d prior to	o abando	onment	. Casing	g W	ill be pe	erfo	orated fro	om 50 fe	et above v	water leve	el to
botto	m of casing	•												
Estimate	ed Cost to Plug	Wells												
\$4,62	20													
at in	certify under the tachments and formation is tru pssibliity of fine	that, based on ie, accurate, an	my inquiry nd complete	of those i	y examine ndividuals are that th	immedia	far ately	niliar with / responsi	ible f	for obtainin	g the inforn	nation, I beli	eve that the	ē
Name ar	nd Official Title	(Please type o	r print)		Sign	nature							Date Signed	ı
Vit Ku	hnel, Hydrolo	gy Manager												

OMB No. 2040-0042 Approval Expires 11/30/2014

V		FA		PLU	JGGING	AN	D ABA	٩N	IDON	ΜE	ENT PL	AN			
		d Address of F									ess of Owner				
		LSIOR MININ									MINING C L, 2999 N		TE 300, PI	HOENIX, A	Z 85018
		ate Well and C	Outline Unit on			ate Z					unty ochise		Permit TBD	Number	
•			N		Su	ırface L	ocation D	)es	cription						<u> </u>
		<del>                                      </del>		<u> </u>		1/4 0	of SW 1/4	1 of	<u>nw</u> 1/4 o	of S	SW 1/4 of	Section 31	Township	15S Range	23E
		<u> </u>	_		Lo	cate w	ell in two	dire	ections fro	om	nearest line	s of quarter	section and	drilling unit	
		Ι Ι Ι +	$ \vdash$ $ \vdash$			rface									
		<u>i_i_i</u> .	_L_i_i								e of quarter				
				ļ ļ	an	d <u>433</u>			THORIZAT		f quarter sec	ction.	WELL	ACTIVITY	
w		+ + +		E		Indi	vidual Pe			1011	•	☐ CLAS		ACTIVITY	
			_			✓ Area	a Permit					CLAS	SS II		
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		<u>i_ii.</u>	_ <u>L i _ i</u>		1	Numbei	r of Wells	1					nhanced Re	•	
				[								CLAS	lydrocarbon SS III	Storage	
			s			N							55-994	930, NSD-0	23
		CA	SING AND TUB	ING PECOPI		ase Na					METH	Well Numl	Jei	F CEMENT P	
SIZI	= 1	WT (LB/FT)	TO BE PUT IN		TO BE LEI			Τ,	HOLE SIZE	F	_			CLWILINI	2000
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Sizo	of U		TO PLUG AND				PLUG #	1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wil bing or Drill Pip		(Inche		4.5 1546	=		=					
			Used (each plu				145								
		lume To Be Pu	. ,				171								
		d Top of Plug					2			_					
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		. ,	Material (Class I	III)			V	=		╡					
		LIS	T ALL OPEN H	OLE AND/OR	PERFORATI	ED INTE	RVALS A	ND	INTERVAL	LS V	WHERE CAS	ING WILL BE	VARIED (if	any)	
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552				1546											
Wa	ter	level will b	e measured	prior to	abandon	ment	. Casing	w	ill be pe	erfo	orated fro	om 50 fee	et above	water leve	el to
bot	tor	n of casing.													
		d Cost to Plug	Wells												
\$1	0,8	322													
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						(	Certific	ati	ion						
			e penalty of law												
			that, based on ie, accurate, an					_				-			)
			and imprison						·			-	·	-	
			(Please type o	r print)		Sign	nature							Date Signed	
Vit	Kuł	mel, Hydrolog	gy Manager												

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<b>V</b> L			PL	.UGGIN	NG AN	ND AB	A١	NDON	ME	ENT PL	AN			
	d Address of F									ess of Owner	•			
	LSIOR MINII IISON PROJE									MINING C L, 2999 N		TE 300, PF	IOENIX, A	Z 85018
	cate Well and C				State AZ					unty ochise		Permit TBD	Number	
		N			Surface	Location	Des	cription						
			$\neg$		1/4	of SW 1	/4 of	<u>ne</u> 1/4	of _	SW 1/4 of	Section 31	Township	15S Range	23E
	<u> </u>	╼┠╌┽╼┞				well in two	dir	ections fr	om	nearest line	s of quarter	section and	drilling unit	
	+	┸	-+-		Surface	1278 <sub>ft. f</sub>	rm (	(N/S) N	Lin	e of quarter	section			
	<u> </u>	_								f quarter sec				
w —		+ + +	-	E				JTHORIZAT	TION	١			ACTIVITY	
	<u> </u>	_   -  -  -  -  -  -  -  -  -  -  -  -	_			dividual Po ea Permit	ermi	it			CLA			
	X		_   _		Ru							Brine Dispos	al	
			l I		Numbe	er of Wells	1					nhanced Re	covery	
	<u> </u>		- <del> </del>									lydrocarbon SS III	Storage	
<u> </u>		S										55 994	931, NSD-0	124
		CINC AND THE	INC DECC	DD ACTED	Lease N					METH	Well Num	ber		
SIZE	WT (LB/FT)	TO BE PUT IN				WELL (FT)		HOLE SIZ	'F	_			F CEMENT P	LUGS
4.5	Unknown	0	WEEL (I I	671	LEI I IIV	WEEE (F 1)	_	4.5		=	Balance Me Dump Baile			
										=	Two-Plug N			
							4			Oth	er			
	CEMENTING	TO PLUG AND	ABANDON	Ι ΠΔΤΔ·		PLUG	#1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H		which Plug Wil				4.5	<i>,,</i>	1 200 #	_	1 200 #3	1 200 #4	1 200 #3	1 200 #0	1 200 #7
Depth to	Bottom of Tuk	oing or Drill Pip	e (ft			1972								
		Used (each plu	g)			185			_					
	olume To Be Pu					218	_		=					
	d Top of Plug (					ω								
	t. (Lb./Gal.)					15.6								
Type Cer		Material (Class I	,			V								
	From	ST ALL OPEN H	OLE AND/C	OR PERFOR		TERVALS /	AND	INTERVA		From	ING WILL BE	VARIED (if a	To	
671			1972											
Water	r level will b	e measured	prior t	o aband	onmen	t. Casin	g w	/ill be p	erf	orated fr	om 50 fe	et above v	water leve	el to
	m of casing		•			,	_	•						ŀ
Estimate	d Cost to Plug	Wells												
\$13,8	304													
		e penalty of law that, based on					n far	miliar with						
inf	formation is tru	ie, accurate, an and imprisonr	d complet	e. Iam aw	are that t		-				-			e
		(Please type o	r print)		Sig	gnature							Date Signed	ı
Vit Ku	hnel, Hydrolo	gy Manager												

<b>♥EFA</b>	PLUGGIN	NG AN	D ABA	ANDON	ME	ENT PL	AN				
Name and Address of Facility						ess of Owner	•				
EXCELSIOR MINING CORP GUNNISON PROJECT						MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018	
Locate Well and Outline Unit on Section Plat - 640 Acres		State AZ			-	unty ochise		Permit TBD	Number		
-		Surface L	ocation D	escription							
N N	<del></del>	1/4 0	of SW 1/4	of <u>se</u> 1/4	of _	SW_1/4 of	Section 31	Township	15S Range	23E	
<b>┃</b> ├─┽─├─┽─┣─┽─├			ell in two o	directions f	rom	nearest line	s of quarter	section and	drilling unit		
<b>│</b>	- + -	Surface	364 64 6	(N/C) S	٦	ne of quarter					
<b>┃ ├</b> ╶┼─├─┼─┠─┼─├	- 🕂 —					f quarter sec					
	E			AUTHORIZA				WELL A	ACTIVITY		
<b>  "</b>			vidual Per	mit			CLAS				
	<del>-   -  </del>		a Permit				L CLAS				
<b> </b>	- + -	Rule	Rule Brine Disposal Enhanced Recovery								
<b>┃ ├</b> ─┴─├─┴─ <b>┟</b> ─┴─├	- 🕂 —	Numbei	r of Wells	1				ydrocarbon	•		
X			CLASS III								
s		Lease Na	me			Well Number 55-224932, NSD-025					
CASING AND TUBI	NG RECORD AFTER					METH			F CEMENT P	LUGS	
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO BE	LEFT IN W	ELL (FT)	HOLE SIZ	ZE	✓ The	Balance Me	thod			
4.5 Unknown 0	637			4.5		=	Dump Baile				
						The	· Two-Plug M	lethod			
						Oth	er				
CEMENTING TO PLUG AND A Size of Hole or Pipe in which Plug Will			PLUG #1	1 PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Depth to Bottom of Tubing or Drill Pipe			1644		=						
Sacks of Cement To Be Used (each plug	1)		154								
Slurry Volume To Be Pumped (cu. ft.)			182								
Calculated Top of Plug (ft.)			2								
Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.)			15.6	_	=						
Type Cement or Other Material (Class III	 I)		V		=						
	)LE AND/OR PERFOR	RATED INTE	ERVALS AN	ND INTERVA	ALS	WHERE CAS	ING WILL BE	VARIED (if a	inv)		
From	То					From			To		
637	1644										
Water level will be measured	prior to abando	onment.	. Casing	will be p	erf	orated fro	om 50 fee	t above v	vater leve	el to	
bottom of casing.											
Estimated Cost to Plug Wells											
\$11,508											
I certify under the penalty of law attachments and that, based on r information is true, accurate, and possibliity of fine and imprisonm	my inquiry of those i I complete. I am aw	ly examine individuals vare that th	immediat	familiar wit	sible	for obtainir	ig the inform	nation, I belie	eve that the	•	
Name and Official Title (Please type or			nature					ı	Date Signed	<u> </u>	
Vit Kuhnel, Hydrology Manager	printy		iatui e						Date Signed		

OMB No. 2040-0042 Approval Expires 11/30/2014

V		A		PLU	JGGING	AN	D ABA	٩N	IDON	ИE	ENT PL	AN				
		d Address of F									ss of Owner					
		SIOR MININ ISON PROJE									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018	
		ate Well and O	Outline Unit on Acres			ate Z	•			_	unty ochise		Permit TBD	Number		
-	-		N		Su	ırface L	ocation D	)esc	cription							
		<del>! ! !</del>	<del>i</del> !!			1/4 0	of <u>ne</u> 1/4	of	<u>ne</u> 1/4 o	of S	Se1/4 of	Section 36	Township	15S Range	22E	
	_	<u> </u>	╌┠╌┼╌┞		Lo	cate w	ell in two	dire	ections fro	om ı	nearest line	s of quarter	section and	drilling unit		
			$ \vdash$ $ \vdash$	_		rface										
		<u>i_i_i</u> .	_L_i_i	i							e of quarter					
				ļ	an	d <u>1</u>			) <u>VV</u> Lin		f quarter sec	tion.	WELL	ACTIVITY		
w	X	+ + +		E		Indi	vidual Per			1014	•	☐ CLAS		ACTIVITY		
		<u> </u>	_			✓ Area	Permit					CLAS	SS II			
			$ \vdash$ $ \vdash$	_		Rule Brine Disposal										
				i		Numbei	of Wells	1					nhanced Re	covery		
		<u> </u>				Hydroca								Storage		
			S								CLASS III					
					Le	Lease Name						Well Numb	per 55-224	154, NSD-0	26	
		CA	SING AND TUB	ING RECORE	D AFTER PL	JGGING	3				METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS	
SIZE		WT (LB/FT)	TO BE PUT IN	I WELL (FT)	TO BE LE	T IN W	ELL (FT)	-	HOLE SIZE	E	✓ The Balance Method					
4.5		Unknown	0		436			4	.5	4	The	Dump Baile	r Method			
								ŀ		4		Two-Plug M	ethod			
	=							╠		=	Oth	er				
		CEMENTING	TO PLUG AND	ABANDON D	ATA:		PLUG #	1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size	of H		which Plug Wil				4.5									
Depth	ı to	Bottom of Tub	oing or Drill Pip	e (ft			1168									
			Used (each plu	ıg)			109									
			umped (cu. ft.)				129	_		_						
		d Top of Plug I Top of Plug (i					2	_		4						
		t. (Lb./Gal.)	ii taggeu it.)				15.6	=		-						
			Material (Class I	III)			V	=								
		LIS	ST ALL OPEN H	OLE AND/OR	PERFORATI	ED INTE	RVALS A	ND	INTERVAL	s v	WHERE CAS	ING WILL BE	VARIED (if a	any)		
		From			То					F	From			То		
436				1168												
			e measured	prior to	abandoni	ment.	Casing	W	ill be pe	erfo	orated fro	om 50 fee	t above v	water leve	el to	
		n of casing.														
		d Cost to Plug	Wells													
\$8,	,1/	6														
							Certific	ati	on							
			e penalty of law													
	inf	ormation is tru	that, based on ie, accurate, an and imprison	nd complete.	I am aware	that th		_	-			-			•	
Name	an	d Official Title	(Please type o	r print)		Sign	nature							Date Signed	<u> </u>	
Vit 1	Kuł	nel, Hydrolog	gy Manager													

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<b>⊘</b> □	ΓA		Pl	_UGGI	NG AN	D AB	A۱	IDONI	ME	ENT PL	AN				
	d Address of F						Nar	me and Ad	ldre	ss of Owner	/Operator				
	LSIOR MININ ISON PROJE									MINING C L, 2999 N		STE 300, PH	IOENIX, A	Z 85018	
	cate Well and Oction Plat - 640 A				State AZ	•				unty ochise		Permit TBD	Number		
360	tion riat - 040 A				Surface L	_ocation [	Des	cription							
	1 1 1	N T	1		1/4	of <u>se</u> 1/4	4 of	<u>ne</u> 1/4 c	of S	se_ 1/4 of	Section 36	Township	15S Range	22E	
-	<u> </u>	╌┠╌┼╌┞			Locate w	ell in two	dir	ections fro	om	nearest line	s of quarter	section and	drilling unit		
		_	_		Surface										
			ļ							e of quarter					
	<u> </u>				and <u>537</u>					f quarter se	ction.				
w	+ + +	++	+	E		TYPE OF vidual Pe		THORIZAT	TION	ı	☐ CLAS		ACTIVITY		
l	<u> </u>	_	_ 🕂 :			a Permit					CLA				
			_ <u> </u>		Rul	Rule Brine Disposal									
		r of Wells	1					nhanced Re	covery						
	<u> </u>			Number	i oi weiis	_					lydrocarbon	Storage			
<u> </u>	<u>i i i</u>		i			CLASS III									
		S			Lease Na	Lease Name Well Number 55-224						936, NSD-0	)27		
	CA	SING AND TUB	ORD AFTER	PLUGGING	LUGGING METHOD OF EMPLACEMENT OF CEMENT PLUG							LUGS			
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (F	т) то ве	LEFT IN W	.EFT IN WELL (FT) HOLE SIZE  The Balance Method									
4.5	Unknown	0		404			4	1.5		The	Dump Baile	er Method			
										The	Two-Plug N	/lethod			
							# -		_	Oth	er				
	CEMENTING	TO PLUG AND	ARANDON	I DATA:		PLUG #	<u> </u>	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of H	lole or Pipe in					4.5		1 200 #	_	. 200 #0	. 200 //4	. 200 #0	. 200 #0	1 200 #/	
	Bottom of Tub			•		1005									
Sacks of	Cement To Be	Used (each plu	g)			94									
	olume To Be Pu					111	_								
	ed Top of Plug					2	_		4						
	d Top of Plug (i t. (Lb./Gal.)	ii taggeu it.)				15.6	_		=						
_	ment or Other N	Material (Class	II)			V	_		=						
	LIS	T ALL OPEN H	OLE AND/	OR PERFOR	RATED INTI	ERVALS A	ND	INTERVAL	LS V	WHERE CAS	ING WILL BE	VARIED (if a	any)		
	From			То					Ī	From			То		
404			1005												
Water	level will b	e measured	d prior t	o aband	onment	. Casing	ξW	ill be pe	erfo	orated fr	om 50 fee	et above v	water leve	el to	
	m of casing.		·											H	
Estimate	d Cost to Plug	Wells													
\$7,03	35														
att inf	ertify under the achments and formation is tru ssibliity of fine	that, based on ie, accurate, an	my inquii d comple	ry of those i te. I am aw	ly examine individuals vare that th	s immedia	fan itely	niliar with / responsi	ible	for obtaining	g the inforn	nation, I beli	eve that the	ð	
Name an	d Official Title	(Please type o	r print)		Sign	nature							Date Signed	ı	
Vit Ku	Vit Kuhnel, Hydrology Manager														

**\$EPA** 

<b>⊘</b> □	FA		PI	LUGGII	NG AN	D AB	41	IDON	MEN	NT PL	AN			
	nd Address of F						Nar	ne and Ad	ldress	s of Owner	/Operator			
	LSIOR MINII NISON PROJE									IINING C , 2999 N 4		TE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ				Cocl			Permit TBD	Number	
36	CHOII FIAL - 040 /			-	Surface I	_ocation [	)es	cription						
	1 1 1	N I i i	ı	1	1/4	of <u>SW</u> 1/4	1 of	<u>ne</u> 1/4 o	of se	1/4 of	Section 36	Township	15S Range	22E
	<u> </u>	_	_ <del> </del>		Locate w	ell in two	dire	ections fro	om ne	earest line	s of quarter	section and	drilling unit	
					Surface									
	T-FT				Location	930 ft. fr	m (	n/s) N	Line o	of quarter	section			
	<u> </u>	╼┣═╅═╏			and <u>1061</u>	ft. from (I	E/W	) E Lin	e of q	quarter sec	tion.			
w			    	E				THORIZAT	ION				ACTIVITY	
	<u>i</u> _Li.	_ <b>L</b> _i _ i				vidual Pe	rmi	t			L CLAS			
			$\mathbf{x}$		Rul	a Permit					L CLAS	SS II Brine Dispos	.1	
	+	╼┣═┿╼┆	-+-			Enhanced Recovery								
<u> </u>	<u> </u>	_	_ 🕂		Numbe	r of Wells	1					lydrocarbon	•	
			 								CLAS	SS III	-	
		S			Lease Na	Lease Name Well Number 55-2						55-224	937, NSD-0	28
	CA	SING AND TUE	ING REC	ORD AFTER						METH			F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (F	т) то ве	LEFT IN W	/ELL (FT)		HOLE SIZI	E	✓ The	Balance Me	othod		
4.5	Unknown	0		396		4.5 The Dump Bailer Method								
										=	Two-Plug N			
						Other								
						1		ı	_	1		1	1	1
0:		TO PLUG AND				PLUG #	1	PLUG #2	2 P	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in Bottom of Tuk			ea (inche		4.5 755	_		₩					
	f Cement To Be					70	_		╬					
	olume To Be Pu		<u> </u>			83								
Calculat	ed Top of Plug	(ft.)				2								
Measure	ed Top of Plug (	if tagged ft.)												
	Vt. (Lb./Gal.)					15.6								
Type Ce	ment or Other N	Material (Class	III)			V								
		ST ALL OPEN H	OLE AND/			ERVALS A	ND	INTERVAL			ING WILL BE	VARIED (if a		
206	From		755	То					Fr	rom			То	
396														
	r level will b		d prior t	to aband	onment	. Casing	W	ill be pe	erfor	rated fro	om 50 fee	et above v	vater leve	el to
botto	m of casing.													
	ed Cost to Plug	Wells												
\$5,2	\$5,285													
at in	certify under the tachments and formation is tru ossibliity of fine	that, based on ie, accurate, ar	my inqui Id comple	ry of those te. I am aw	ly examine individuals vare that th	s immedia	fan tely	niliar with / responsi	ble fo	or obtainin	g the inforn	nation, I beli	eve that the	•
Name ar	nd Official Title	(Please type o	r print)		Sign	nature							Date Signed	l
Name and Official Title (Please type or print)  Vit Kuhnel, Hydrology Manager  Date Signed														

**\$EPA** 

₩E	:PA		PL	.UGGII	NG AN	D AB	٩N	IDONI	ME	ENT PL	AN			
EXCI	nd Address of Fa ELSIOR MININ NISON PROJE	NG CORP					EX	CELSIC	OR	ess of Owner MINING C L, 2999 N	ORP	STE 300, PH	IOENIX, A	Z 85018
	ocate Well and C				State AZ					unty ochise		Permit TBD	Number	
36	CLIOII FIAL - 040 F				Surface I	Location D	)esc	ription						
	<del>                                     </del>	N I	! ]		1/4	of <u>nw</u> 1/4	1 of	<u>ne</u> 1/4 (	of _	se_1/4 of	Section 36	Township	15S Range	22E
_	-	-    -   -    -   -    -	_		Surface Location	108 ft. fr	m (l	n/s) N	Lin	nearest line ne of quarter of quarter sec	section	section and	drilling unit	
l L			ļ	_				THORIZAT				WELL A	ACTIVITY	
w	1 1 1		X	E	Indi	ividual Pe	rmit	l			CLA	SS I		
	-	╼┢═╅╼╏	$-\dagger$		✓ Are	a Permit					CLA	SS II		
	· <del>- i - i - i -</del>	− <b>┠</b> −∔−⊦	- <del>i</del>		Rul	Rule Brine Disposal								
	_i_i_i	_L_i_i	الللا		Numbe	umber of Wells Enhanced Recovery								
	$\top$		- $   $			Hydrocar								
L	1 1 1	S									CLASS III			
					Lease Na									
	1	SING AND TUE									LACEMENT O	F CEMENT P	LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT	-	E LEFT IN WELL (FT) HOLE SIZE   The Balance Method						ethod			
4.5	Unknown	0		279	4.5 The Dump Bailer Meth						er Method			
							╬		$\dashv$		Two-Plug I	Method		
				_			⊬		=	Oth	er			
	CEMENTING	TO PLUG AND	ARANDON	DΔΤΔ·		PLUG #	1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of	Hole or Pipe in					4.5	_	1 200 //	_	. 2000	. 200 # 1	1 200 #0	. 2000	. 200 ;;;
	o Bottom of Tub			•		279	Ħ							
Sacks o	of Cement To Be	Used (each plu	ıg)			75								
Slurry \	/olume To Be Ρι	ımped (cu. ft.)				31								
Calcula	ted Top of Plug	(ft.)				2								
Measur	ed Top of Plug (i	if tagged ft.)												
_	Wt. (Lb./Gal.)					15.6								
Type Co	ement or Other N	laterial (Class	III)			V								
		T ALL OPEN H	OLE AND/O			ERVALS A	ND	INTERVA			ING WILL BE	E VARIED (if a		
	From			То						From			То	
H	er level will bom of casing.		d prior t	o aband	onment	. Casing	Wi	ill be pe	erf	orated fro	om 50 fe	et above v	vater leve	el to
	ted Cost to Plug													
\$1,9														
a iı	certify under the ttachments and nformation is tru ossibliity of fine	that, based on ie, accurate, ar	my inquir id complet	y of those i e. I am aw	ly examine individuals vare that the	s immedia	fam tely	niliar with respons	ible	for obtainir	g the inforr	nation, I beli	eve that the	е
Name a	nd Official Title	(Please type o	r print)		Sig	nature							Date Signed	i
Vit K	uhnel, Hydrolog	gy Manager												

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of <u>ne</u> 1/4 of <u>nw</u> 1/4 of <u>se</u> 1/4 of Section <u>36</u> Township <u>15S</u> Range 22E Locate well in two directions from nearest lines of quarter section and drilling unit Location 551 ft. frm (N/S) N Line of quarter section and 1219ft. from (E/W)  $\overline{W}$  Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-224848, NSD-030 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 4.5 Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 4.5 Depth to Bottom of Tubing or Drill Pipe (ft 767 Sacks of Cement To Be Used (each plug) 72 Slurry Volume To Be Pumped (cu. ft.) 85 Calculated Top of Plug (ft.) 2 Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) Type Cement or Other Material (Class III) LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From То 256 767 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing. Estimated Cost to Plug Wells \$5,369

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

**\$EPA** 

<b>⊗</b> E	ГА		PL	UGGII	NG AN	D AB	٩N	IDON	MEN.	T PL	AN				
	d Address of F						Nar	ne and Ad	dress o	of Owner	/Operator				
	LSIOR MININ							XCELSIC ONCORI				TE 300, PH	IOENIX, A	Z 85018	
	cate Well and C				State AZ	•			County Cochi:			Permit TBD	Number		
000	211011 1 141 - 040 7				Surface I	Location [	Des	cription							
	1 1 1	N I			1/4	of se 1/4	4 of	se1/4 c	f ne	1/4 of	Section 36	Township	15S Range	22E	
	<u> </u>	_			Locate w	ell in two	dir	ections fro	om neai	rest line	s of quarter	section and	drilling unit		
			_		Surface										
			i İ					n/s) S							
	<u> </u>	╼┠╌┽╼╏	$-\frac{1}{\mathbf{x}}$		and <u>316</u>			) E Lin		arter sec	tion.				
w —	<del>-   -  </del>		^A	E	l			THORIZAT	ION		l		ACTIVITY		
	1_L1.	_				ividual Pe a Permit	rmi	t			CLAS				
			Į		Rul							ss II Brine Disposi	al		
	<b>+</b>		- + -			Enhanced Recovery									
<u> </u>	<u> </u>	╼┠╸┽╼┞			Numbe	r of Wells	1					lydrocarbon	-		
			l i			CLASS III									
		S			Lease Na	ıme				Well Number 55-224155, NSD-031					
	CA	SING AND TUE	ING RECC	RD AFTER						METH			F CEMENT PI	LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (F)	г) ТО ВЕ	LEFT IN W	EFT IN WELL (FT) HOLE SIZE   The Balance Method									
4.5	Unknown	0		415		4.5 The Dump Bailer Method									
										=	Two-Plug N				
										Oth	er				
						1		ı		ı		ı	1	ı	
		TO PLUG AND				PLUG #	ŧ1	PLUG #2	2 PL	.UG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
	lole or Pipe in Bottom of Tub			d (inche		1008	_		-						
	Cement To Be					94	_		=						
	olume To Be Pu	<u> </u>	37			111	一		=						
Calculate	ed Top of Plug	(ft.)				2	ī								
Measure	d Top of Plug (	if tagged ft.)													
_	t. (Lb./Gal.)					15.6									
Type Cei	ment or Other N	Material (Class I	II)			V									
		ST ALL OPEN H	OLE AND/O			ERVALS A	ND	INTERVAL			ING WILL BE	VARIED (if a			
415	From		1000	То					Fron	m			То		
415			1008												
Water	level will b	e measured	prior t	o aband	onment	. Casing	g W	ill be pe	erfora	ted fro	om 50 fee	et above v	vater leve	el to	
bottor	m of casing.														
Estimate	d Cost to Plug	Wells													
\$7,05	56														
att int	ertify under the tachments and formation is tru	that, based on ie, accurate, an	my inquir id complet	y of those te. I am aw	ly examine individuals are that th	s immedia	fan	niliar with / responsi	ble for	obtainin	g the inform	nation, I beli	eve that the	•	
	ssibliity of fine		-	+0 OFK I								т	B ( 5:		
	id Official Title hnel. Hydrolo:		r print)		Sig	nature							Date Signed	<u> </u>	
	Vit Kuhnel, Hydrology Manager														

<b>%</b> E	:PA		PLL	JGGING	ANI	D ABA	NDON	M	ENT PL	AN				
EXC	and Address of F ELSIOR MINII NISON PROJE	NG CORP					EXCELSI	OR	ess of Owner MINING C PL, 2999 N	CORP	TE 300, PH	IOENIX, A	Z 85018	
	ocate Well and C				ate Z				ounty Cochise		Permit TBD	Number		
	oction rate 6467			Su	ırface L	ocation De	scription							
	<del>                                      </del>	N I I I			1/4 o	of <u>nw</u> 1/4	of <u>ne</u> 1/4	of _	se_1/4 of	Section 36	Township	15S Range	22E	
-	_	_	- <del> </del> -   - + -   - <u> </u> -	Su	ırface ocation <u>'</u>	47ft. frm	n (N/S) N	Li	n nearest line ne of quarter of quarter	section	section and	drilling unit		
			ļ	an	10 100		UTHORIZA			1	WELL	ACTIVITY		
w	1 1 1		X		Indiv	vidual Perr	nit			CLAS				
		<b></b>			<b>√</b> Area	Permit				CLAS	SS II			
	<del></del>	<del>-</del> ┣-┽-┼	-		Rule Brine Disposal									
			i		lumber of Wells 1 Enhanced Recovery									
		╌┠╌┼╌╎		'	Number	or wens _	lydrocarbon	Storage						
	<u>i i i</u>										LASS III			
		S		Le	Lease Name Well Number 55					ber 55-224	55-224939, NSD-032			
	CA	SING AND TUE	SING RECOR	D AFTER PLI										
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEE	FT IN W	ELL (FT)	HOLE SI	7F	_ ✓ The					
4.5	Unknown	0		686		( /	4.5	_	1 =	Balance Me				
1.0	CIRCIOWII			000			1.0	_	1 =	Dump Baile Two-Plug N				
								=	Oth	-	ietiiou			
										iei				
	CEMENTING	TO PLUG AND	ABANDON D.	ATA:		PLUG #1	PLUG :	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of	Hole or Pipe in	which Plug Wil	II Be Placed	(inche		4.5								
Depth 1	to Bottom of Tuk	oing or Drill Pip	oe (ft	-		686								
Sacks	of Cement To Be	Used (each plu	ıg)			66								
Slurry	Volume To Be Ρι	umped (cu. ft.)				76								
Calcula	ated Top of Plug	(ft.)				2								
Measur	red Top of Plug (	if tagged ft.)												
	Wt. (Lb./Gal.)					15.6								
Type C	ement or Other N	Material (Class	III)			V								
		ST ALL OPEN H	OLE AND/OR		ED INTE	RVALS AN	D INTERVA	ALS		ING WILL BE	VARIED (if a			
	From			То					From			То		
						-		_						
Wate	er level will b	e measure	d prior to	abandon	ment.	Casing	will be p	er	forated fr	om 50 fe	et above v	water leve	el to	
botto	om of casing	<u>.                                    </u>												
Estima	ted Cost to Plug	Wells												
\$4,8	302													
a i	certify under the attachments and nformation is tru cossibliity of fine	that, based on ie, accurate, ar	my inquiry on the complete.	of those indi I am aware	xamine viduals that the	immediate	amiliar wit	sibl	e for obtainir	ng the inforn	nation, I beli	eve that the	,	
Name a	and Official Title	(Please type o	r print)		Sign	ature						Date Signed		
Vit K	uhnel, Hydrolo	gy Manager												

<b>V</b>	=PA		PLU	JGGING	AND	ABA	NDON	ME	ENT PL	AN				
EXC	and Address of F ELSIOR MINII INISON PROJE	NG CORP					EXCELSION	OR	MINING C PL, 2999 N	CORP	STE 300, PH	IOENIX, A	Z 85018	
	ocate Well and C			Star Az					ounty ochise		Permit TBD	Number		
	occion i lat - 040 /	N		Sur			scription						205	
											Township			
-	-	— <del>                                    </del>	- <del> </del> -   - <del> </del> -   - <del> </del> -	Sur Loc	face	ft. frm	(N/S) S	Lin	nearest line ne of quarter of quarter sec	section	section and	drilling unit		
w -			<del> </del>		T\	PE OF A	UTHORIZA	TION	N		WELL A	ACTIVITY		
		_L_i_i				ual Pern	nit			CLA				
					Area Po	ermit				CLA	SS II Brine Dispos:	al		
	- + -  - + -		- + -			covery								
-		- <b> -</b>   -	_ + _	N	umber of	Wells <u>1</u>	Hydrocarbon	Storage						
L	X		<u> </u>								CLASS III			
		S		Lea	ise Name	se Name Well N					55-224846, NSD-033			
	CA	SING AND TUE	ING RECORI	D AFTER PLU							ACEMENT O	F CEMENT P	LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	N WELL (FT)	TO BE LEF	E LEFT IN WELL (FT) HOLE SIZE						ethod			
4.5	Unknown	0		500	4.5 The Dump Bailer Method									
									The	Two-Plug N	<b>l</b> lethod			
									Oth	er				
	OFMENTING	TO BLUG AND	ADANDON D	ATA:	Τ.	LUG #1	PLUG #	40	DI 110 #0	DI 110 #4	DI 110 #5	DI 110 #0	DI 110 #7	
Size o	f Hole or Pipe in	TO PLUG AND				.5	PLUG #	FZ	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
	to Bottom of Tuk			(		579	1	=						
Sacks	of Cement To Be	Used (each plu	ıg)		1	47								
	Volume To Be Pu				1	74								
	ated Top of Plug				2									
	red Top of Plug ( Wt. (Lb./Gal.)	if tagged ft.)			1	r 0		_						
•	Cement or Other M	Material (Class	III)		7	5.6		=						
.,,,,		ST ALL OPEN H		PERFORATE			D INTERVA	LS	WHERE CAS	ING WILL BE	VARIED (if a	inv)		
	From			То					From		•	To		
500			1579											
11	er level will b om of casing		d prior to	abandonn	nent. C	asing v	will be p	erf	orated fro	om 50 fe	et above v	water leve	el to	
	ated Cost to Plug													
	1,053													
	I certify under the attachments and information is tru possibliity of fine	that, based on ie, accurate, ar	my inquiry on the complete.	of those indiv I am aware t	amined a riduals im	mediate	amiliar with ly respons	ible	for obtainin	ng the inform	nation, I beli	eve that the	9	
Name	and Official Title													
	una Omolai ma	(Please type of	r print)		Signat	ure						Date Signed	l	

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of <u>Se</u> 1/4 of <u>nw</u> 1/4 of <u>Se</u> 1/4 of Section <u>36</u> Township <u>15S</u> Range 22E Locate well in two directions from nearest lines of quarter section and drilling unit Location 1083ft. frm (N/S) N Line of quarter section and  $\underline{966}$  ft. from (E/W)  $\underline{W}$  Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II X Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-224854, NSD-036 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 4.5 Unknown ☐ The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 4.5 Depth to Bottom of Tubing or Drill Pipe (ft 793 Sacks of Cement To Be Used (each plug) 75 Slurry Volume To Be Pumped (cu. ft.) 88 Calculated Top of Plug (ft.) 2 Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) 15.6

	<u>'</u>	<b>V</b>										
LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)												
From	То			From			То					
501	793											
Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to												

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

Type Cement or Other Material (Class III)

\$5,551

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		
	1	

United States Environmental Protection Agency **ŞEPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN

					CCCIII			<b>~!</b> '	1DOM:							
		d Address of Fa				Name and Address of Owner/Operator										
		SIOR MININ ISON PROJE								MINING C PL, 2999 N		TE 300, PF	IOENIX, A	Z 85018		
						State			Co	ounty		Permit	Number			
		ate Well and O tion Plat - 640 A				AZ			C	ochise		TBD				
	000	1011 1 141 - 040 7			l	Surface	Location D	)es	cription							
		<del></del>	N .	<u> </u>		1/4	of <u>SW</u> 1/4	l of	SW 1/4 of	<u>nw</u> 1/4 of	Section 31	Township	15S Range	23E		
w	x		-	- <del> </del> -   - <del> </del> -   - <u> </u> -	E	Surface Location	257 ft. fr ft. from (E	m ( E/W	(N/S) S Lii	nearest line ne of quarter of quarter sec N	section		drilling unit			
1		i i i	l i i	i 1	_	Ind	ividual Pe	rmi	it		L CLAS	SS I				
		†- - <i>-</i>  -	- <b>-</b>	$-\dagger$		✓ Are	a Permit				CLAS	SS II				
		+  + -	– ⊩ -i –i			Ru	le				<u></u> □ □	Brine Dispos	al			
		i i i	l i i	il		Numbe	er of Wells	1				nhanced Re				
		† — <del> -  </del> -	- <b>-</b>	- <del>-  </del> -		· · · · · · · · · · · · · · · · · · ·					<u> </u>  ∐H	Hydrocarbon Storage				
		<u> </u>									CLAS	SS III				
			S			Lease Na	ame				Well Num	55-224	059, NSD-0	37		
		CA	SING AND TUE	ING RECOF	RD AFTER I	PLUGGIN	G			METHOD OF EMPLACEMENT OF CEMENT PLUGS						
SIZI	Ξ [	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE I	LEFT IN V	VELL (FT)		HOLE SIZE	✓ The Balance Method						
4.5		Unknown	0		524			4	1.5	The Dump Bailer Method						
								ΙĪ		1 =	Two-Plug N					
	$\equiv$							ĬΤ		Oth	_	ictiloa				
	$\equiv$							ï			iei					
		CEMENTING	TO PLUG AND	ABANDON I	DATA:		PLUG #	1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Size	of H	ole or Pipe in v					4.5									
		Bottom of Tub			•		1284	=								
		Cement To Be					120	=								
		lume To Be Pu		<u> </u>			142	=								
		d Top of Plug	· · · ·				2	=								
		l Top of Plug (i					<i>₩</i>	=								
		. (Lb./Gal.)	,				15.6	=								
		nent or Other M	laterial (Class	III)			V	=								
<u> </u>			T ALL OPEN H	·	R PERFOR	ATED INT		ND	INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	anv)			
		From			To					From			To			
524				1284												
321				1201												
		level will b n of casing.		d prior to	abando	onmen <sup>.</sup>	t. Casing	, w	vill be per	forated fr	om 50 fee	et above v	water leve	el to		
Estim	ate	d Cost to Plug	Wells													
\$8	,98	8														
	atta infe	ertify under the achments and ormation is tru ssibliity of fine	that, based on e, accurate, ar	my inquiry id complete	of those in	ndividual are that t	s immedia	far tely	miliar with th y responsible	e for obtainir	ng the inforn	nation, I beli	eve that the	e		
Name and Official Title (Please type or print) Signate													Date Signed	<u> </u>		
Vit	Kuh	nel, Hydrolog	gy Manager													

<b>⊘</b> □	FA		PLI	UGGIN	G AN	D ABA	41	IDONN	MEN	NT PL	AN			
	nd Address of F									s of Owner	•			
	LSIOR MINII NISON PROJE									IINING C , 2999 N 4		TE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ				Coun Cocl			Permit TBD	Number	
<u> </u>	ction i lat - 040 /	N		:	Surface L	ocation D	)es	cription						
	1 1 1				1/4 0	of <u>nw</u> 1/4	1 of	<u>se</u> 1/4 o	f SW	V 1/4 of	Section 31	Township	15S Range	23E
	<u> </u>				Locate w	ell in two	dire	ections fro	om ne	earest line	s of quarter	section and	drilling unit	
		_	_		Surface									
										of quarter				
	<u> </u>			<u> </u>	and <u>626</u>					quarter sec	tion.			
w —	<del>-        </del>	<del>                                     </del>	╼┼─┤╒	≣	п			THORIZAT	ION		<sub> </sub>		ACTIVITY	
		_				☐ Individual Permit ☐ CLASS I ☐ CLASS II								
		e remini						ss II Brine Disposi	al					
	X		1	_				nhanced Re						
<u> </u>	<u> </u>	of Wells	1				H	lydrocarbon	Storage					
								CLA	ASS III					
		S			Lease Name						Well Num	ber 55-224	860, NSD-0	43
	CA	SING AND TUE	GING METHOD OF EMPLACEMENT OF CEMENT PL						LUGS					
SIZE	WT (LB/FT)	ELL (FT)		HOLE SIZE	E	✓ The	Balance Me	athod						
4.5	Unknown	0		628			4	1.5		=	Dump Baile			
										=	Two-Plug N			
						Other								
						ı		ı				1	ı	ı
Cina of I		TO PLUG AND				PLUG #	1	PLUG #2	2 P	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in Bottom of Tuk			(inche:		4.5 628	+		╬					
	f Cement To Be					163	=		₩					
Slurry V	olume To Be Pu	ımped (cu. ft.)				192								
Calculat	ed Top of Plug	(ft.)				2								
	ed Top of Plug (	if tagged ft.)												
_	Vt. (Lb./Gal.) ment or Other N	Antonial (Class I				15.6	4		4					
Type Ce					TED 111T	V		1117551/41	0.14			\\\ \DIED (())	,	
	From	ST ALL OPEN H	JLE AND/OF	To	VIED IN IE	KVALS A	ממי	INTERVAL		om	ING WILL BE	VARIED (IT 8	To	
	110111													
\A/a+a	ا النباد اميروا	o mossurs:	d prior to		nmant	Casina		ع مطالن	rfo.	ratad f	om EO fa	at above :	water laws	1+0
	r level will b m of casing		a prior to	apando	nment	. Casing	g w	ill be pe	erior	rated fro	om 50 fee	et above v	water leve	erto
_														
\$4,39	ed Cost to Plug	Wells												
34,33	70													
					(	Certific	ati	ion						
	ertify under the													
	tachments and formation is tru						-	-			_			)
	ossibliity of fine						-	-			-	•	-	
Name ar	nd Official Title	(Please type o	r print)		Sign	nature							Date Signed	
Vit Ku	hnel, Hydrolo	gy Manager												

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VL	IA		PLU	IGGIN	G AN	D ABA	NDON	MENT PL	AN					
EXCE	d Address of Fa LSIOR MININ NISON PROJE	NG CORP					EXCELSION	ddress of Owne OR MINING ( D PL, 2999 N	CORP	TE 300, PH	IOENIX, A	Z 85018		
Loc	cate Well and O	utline Unit on			State AZ			County Cochise			Number			
Sec	ction Plat - 640 A	Acres				acation D	a a a rintia r	Cocilise		TBD				
		N		l,		ocation D		of SW 1/4 of	21	7 [	15S Range	93E		
				L										
	<u> </u>					ocate well in two directions from nearest lines of quarter section and drilling unit								
I -	+	- $  +$ $  -$	-+-		Surface	ocation 1176ft. frm (N/S) S Line of quarter section								
	<u> </u>	_	_					ine of quarter ne of quarter se						
				F		TYPE OF AUTHORIZATION WELL ACTIVITY								
w			E		Indi	Individual Permit								
	$\frac{1}{X}$	$ \vdash$ $\dashv$ $ \vdash$	-		✓ Area		S II							
	+	- <del> -                                  </del>			Rule	e				rine Disposa				
	1_L1.	_			Number	of Wells	1			nhanced Re ydrocarbon	•			
									CLAS	•	Storage			
		s			<b>N</b> I				Well Numb	55 991	521, NSH-0	001		
	CA	SING AND TUE	SING RECORD		LUGGING			METH	OD OF EMPL	lei				
SIZE	WT (LB/FT)	TO BE PUT IN		1	EFT IN W		HOLE SIZ		e Balance Me					
6.625	Unknown	0		702			9.5	_ = _	е вагапсе ме e Dump Baile					
4.5	Unknown	0		394			6.125		e Two-Plug M					
									her					
											1	1		
		TO PLUG AND				PLUG #1		2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
	Hole or Pipe in v			inche		9.5	6.125 1096							
-	Cement To Be					292	68							
	olume To Be Pu		<u> </u>			345	81							
Calculate	ed Top of Plug	(ft.)				2	702							
	d Top of Plug (i	if tagged ft.)												
	/t. (Lb./Gal.)	1-4				15.6	15.6							
Type Cel	ment or Other N			DEDEAD 4	TED INITE	V	V			VARIER ()				
	From	T ALL OPEN H	OLE AND/OR	PERFORA To	TED INTE	RVALS A	ND INTERVA	LS WHERE CAS	SING WILL BE	VARIED (if a	To			
692	110111		1096					110111						
Water	Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to pottom of casing.													
	stimated Cost to Plug Wells													
\$14,4		Wells												
att inf	ertify under the tachments and formation is tru ossibliity of fine	that, based on e, accurate, an	my inquiry o	of those in	examine dividuals re that th	immediat	familiar with ely respons	ible for obtaini	ng the inform	ation, I belie	eve that the	e		
Name an	nd Official Title	/DI			C:	-4				1	Date Signed	ı		
- 1		(Please type o	r print)		sign	nature					Date Signed			
Vit Ku	hnel, Hydrolog		r print)		Sign	iature					Date Signed			

**\$EPA** 

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	nd Address								me and Ad						
	ELSIOR M NISON PR								XCELSIC ONCORI				TE 300, PH	IOENIX, A	Z 85018
	ocate Well a		utline Unit on			State AZ				Count Coch	•		Permit TBD	Number	
30	sction r lat -	040 7			-	Surface	Location I	Des	cription						
	1 1	1	N	1	1	1/4	of se 1/	4 of	<u>nw</u> 1/4 c	of SW	1/4 of	Section 31	Township	15S Range	23E
	- 4 –	4.	_			Locate w	ell in two	dir	ections fro	om nea	arest line	s of quarter	section and	drilling unit	
		<u> </u>	▂▐▃▕ ▃▐▃▗┿╶▃⊦	_   _ <del> </del> _		Surface									
	i	İ							(N/S) N						
		T	_ <b>_</b> i			and 1040			/) <u>W</u> Lin JTHORIZAT		uarter sec	tion.	WELL	ACTIVITY	
w	+ +	+			E	Ind	ividual Pe			ION		CLAS		CHVIII	
	-	+-	╌┠╌┼╌╏			<b>✓</b> Are	a Permit					CLAS	SS II		
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													inhanced Re	•	
													lydrocarbon SS III	Storage	
			s		=	Lease Name					Well Number 55-221520, NSH-003				
		CA	SING AND TU	SING PEC	OPD AFTER						METH		Jei		
SIZE	SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN W								TT IN WELL (FT) LIQUE CIZE						2000
4.5	Unknow		0		1432		( ,	_	1.5			Balance Me Dump Baile			
								Ī			=	Two-Plug N			
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Size of			which Plug Wi				PLUG #	<del>7</del> 1	PLUG #2	2 PI	LUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			ing or Drill Pi				1432			==					
Sacks o	of Cement T	о Ве	Used (each pl	ng)			134								
			imped (cu. ft.)				158			4					
	ted Top of I		f tagged ft.)				2	_		╬					
	Wt. (Lb./Gal		r tagget it.)				15.6								
Type C	ement or Ot	her N	laterial (Class	III)			V								
		LIS	T ALL OPEN H	OLE AND	OR PERFO	RATED INT	ERVALS A	AND	INTERVAL	S WH	IERE CASI	NG WILL BE	VARIED (if a	ıny)	
	Fro	m			To	)				Fro	om			То	
Wate	er level w	ill b	e measure	d prior	to aband	onment	. Casing	g w	ill be pe	erfora	ated fro	om 50 fee	et above v	vater leve	l to
botto	m of cas	ing.													
	ted Cost to	Plug	Wells												
\$14,	,420														
	certify und	or the	e penalty of lav	w that I ha	ve nercons		Certific			the in	nformation	submitted	in this docu	ment and all	
a iı	ttachments nformation	and is tru	that, based or e, accurate, a and imprison	my inqui nd comple	ry of those ete. I am av	individuals vare that th	s immedia	ately	y responsi	ble fo	r obtainin	g the inforn	nation, I beli	eve that the	)
Name a	nd Official	Γitle	(Please type o	or print)		Sig	nature							Date Signed	
Vit Kuhnel, Hydrology Manager															

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of <u>ne</u> 1/4 of <u>sw</u> 1/4 of <u>sw</u> 1/4 of Section <u>31</u> Township <u>15S</u> Range 23E Locate well in two directions from nearest lines of quarter section and drilling unit Location 1216ft. frm (N/S) S Line of quarter section and 1039ft. from (E/W) W Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-221603, NSH-004B s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 4.5 Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 4.5 Depth to Bottom of Tubing or Drill Pipe (ft 1040 Sacks of Cement To Be Used (each plug) 97 Slurry Volume To Be Pumped (cu. ft.) 115 Calculated Top of Plug (ft.) Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) 15.6 Type Cement or Other Material (Class III)

# Type Cement or Other Material (Class III) LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From To From To Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to

bottom of casing.

Estimated Cost to Plug Wells

\$14,420

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		
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<b>⇔</b> E	:FA		PL	UGGIN	IG AN	D AB	41	IDON	MEI	NT PL	AN			
	and Address of I									s of Owner				
	ELSIOR MINI NISON PROJ									IINING C , 2999 N 4		TE 300, PF	IOENIX, A	Z 85018
	ocate Well and ection Plat - 640				State AZ	•			Cocl			Permit TBD	Number	
	ection riat - 040		<del></del>		Surface L	ocation D	Des	cription						
	1 1 1	N I			1/4 0	of <u>se</u> 1/4	4 of	<u>nw</u> 1/4 c	of SW	V 1/4 of	Section 31	Township	15S Range	23E
	-	_	_		Locate w	ell in two	dire	ections fro	om ne	earest line	s of quarter	section and	drilling unit	
	 - <del>-   -   -</del>		_		Surface									
						ocation $1304$ ft. frm (N/S) $N$ Line of quarter section								
					and <u>1173</u>	d 1173 ft. from (E/W) W Line of quarter section.  TYPE OF AUTHORIZATION WELL ACTIVITY								
w	+++		<del></del>	<b></b>	□ Indi	TYPE OF AUTHORIZATION WELL ACTIVITY  Individual Permit CLASS I								
	-		_			☐ Individual Permit ☐ CLASS I								
	_   X		_   _		Rule							Brine Dispos	al	
		r of Wells	1				E	nhanced Re	covery					
	-	oi weiis	_				H	lydrocarbon	Storage					
	<u>i i i</u>	<u>l i i</u>	<u>i_</u>							CLASS III				
		S			Lease Name Well N					Well Num	ber 55-221	604, NSH-0	05	
	C	ASING AND TUE	ING RECOR	RD AFTER I	PLUGGING	3	METHOD OF EMPLACEMENT OF CEMENT PLU						LUGS	
SIZE	WT (LB/FT)	ELL (FT)	ı	HOLE SIZI	E	✓ The	Balance Me	thod						
4.5	Unknown	0		1019			4	1.5		The	Dump Baile	er Method		
							ļĻ			The	Two-Plug N	lethod		
				-			H		4	Oth	er			
	CEMENTIN	G TO PLUG AND	ABANDON	DATA:		PLUG #	<u>                                     </u>	PLUG #2	2 6	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of		which Plug Wil				4.5		1 200 #2		1 200 #3	1 200 #4	1 200 #3	1 200 #0	1200#1
-		bing or Drill Pip		`		1040								
Sacks	of Cement To Be	e Used (each plu	g)			97								
_	Volume To Be P					115								
-	ated Top of Plug					2			4					
-	ed Top of Plug Wt. (Lb./Gal.)	(ir tagged it.)				15.6	_		╬					
_		Material (Class	II)			V	=		===					
		ST ALL OPEN H		R PERFOR	ATED INTE	RVALS A	ND	INTERVAL	LS WI	HERE CASI	ING WILL BE	VARIED (if a	iny)	
	From			То					Fr	rom		-	То	
Wate	er level will b	oe measured	prior to	abando	nment.	. Casing	W	ill be pe	erfor	rated fro	om 50 fee	et above v	vater leve	el to
	om of casing		•											H
Estima	ted Cost to Plug	g Wells												
\$14,	,420													
					(	Certific	ati	ion						
Ι.	certify under th	ne penalty of law	that I have	nersonally					the ir	nformation	submitted	in this docu	ment and all	
а	ittachments and	that, based on	my inquiry	of those in	ndividuals	immedia	tely	/ responsi	ible fo	or obtainin	g the inforn	nation, I beli	eve that the	
		ue, accurate, ar e and imprison				ere are si	gni	ticant pen	alties	s for subm	itting false i	nformation,	including the	•
Name a	and Official Title	(Please type o	r print)		Siar	nature						1	Date Signed	I
			,											
	it Kuhnel, Hydrology Manager													

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<b>AL</b>			PLl	JGGING	G AN	D AB	A۱	NDON	ME	ENT PL	AN			
	nd Address of F									ess of Owner				
	LSIOR MINII NISON PROJE									MINING C L, 2999 N		STE 300, PI	IOENIX, A	Z 85018
-	cate Well and C				tate AZ					unty ochise		Permit TBD	Number	
000	<u> </u>	N		s	urface L	ocation	Des	cription						
	<del>       </del>	<u> </u>		L	1/4 c	of <u>se</u> 1/	4 of	<u>nw</u> 1/4 d	of S	SW 1/4 of	Section 31	Township	15S Range	23E
	<u> </u>	$ \vdash$ $+$ $ \vdash$		L	ocate w	ocate well in two directions from nearest lines of quarter section and drilling unit								
l ⊢	+	<b>- ├- ┼</b> ├		_	urface	urface ocation $1143$ ft. frm (N/S) $\overline{ ext{N}}$ Line of quarter section								
	<u> </u>	_	_			1				ie of quarter f quarter sed				
w L			E					JTHORIZAT				WELL	ACTIVITY	
<b>"</b>	<u> </u>	_L_i_i		-		vidual Pe	ermi	it			CLA			
			- <u>-</u> -		✓ Area							SS II Brine Dispos	al	
	+		1	_				Enhanced Re						
		of Wells	: 上				□	Hydrocarbon	Storage					
	<u> </u>							L CLA	CLASS III  Well Number 55-221519, NSH-006					
		S		L	Lease Name						Well Num	ber 55-221	519, NSH-0	006
	CA	SING AND TUE	ING RECOR	D AFTER PL	LUGGING METHOD OF EMPLACEMENT OF CEMENT PL						LUGS			
SIZE	WT (LB/FT)	FT IN W	ELL (FT)	_	HOLE SIZ	E	✓ The	Balance M	ethod					
4.5	Unknown	0		680			] <u>  </u>	4.5	=	=	Dump Bail			
							╬		$\dashv$	U The	Two-Plug I	Method		
					Other									
		TO PLUG AND				PLUG :	#1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in  Bottom of Tul			(inche		4.5 684	_		4					
	f Cement To Be					64			╡					
Slurry V	olume To Be Pu	umped (cu. ft.)				76								
	ed Top of Plug					2			4					
	d Top of Plug( /t. (Lb./Gal.)	if tagged ft.)				15.6			=					
	ment or Other I	Material (Class	III)			V	Ħ							
	LIS	ST ALL OPEN H	OLE AND/OF	R PERFORAT	TED INTE	RVALS A	AND	INTERVA	LS V	WHERE CAS	ING WILL BI	VARIED (if	any)	
	From			То						From			То	
	level will b		d prior to	abandon	ment.	Casing	g w	ill be pe	erfo	orated fro	om 50 fe	et above v	water leve	el to
	pottom of casing.													
\$14,4	ed Cost to Plug	Wells												
\$14,4	420													
						Certific	at	ion						
l c	ertify under the	e nenalty of law	v that I have	nersonally					the	information	n submitted	in this docu	ment and all	
at	tachments and	that, based on	my inquiry	of those ind	lividuals	immedia	ately	y respons	ible	for obtainir	g the inforr	nation, I beli	eve that the	_
	formation is tru ssibliity of fine					ere are s	ıgnı	nicant pen	iaiti	es for subm	itting talse	iiirormation,	menuaing the	
Name an	nd Official Title	(Please type o	r print)		Sigr	nature							Date Signed	<u> </u>
Vit Ku	hnel, Hydrolo	gy Manager												

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of <u>nw</u> 1/4 of <u>ne</u> 1/4 of <u>se</u> 1/4 of Section <u>36</u> Township <u>15S</u> Range 22E Locate well in two directions from nearest lines of quarter section and drilling unit Location 456 ft. frm (N/S) N Line of quarter section and  $\overline{578}$  ft. from (E/W)  $\overline{E}$  Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS X ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-917430, NSH-007 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 8.625 Unknown 8.625 The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 8.625 7.875 Depth to Bottom of Tubing or Drill Pipe (ft 469 640 Sacks of Cement To Be Used (each plug) 161 49 Slurry Volume To Be Pumped (cu. ft.) 189 58 Calculated Top of Plug (ft.) 469 Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) 15.6 Type Cement or Other Material (Class III) V LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From From То

## From To From To To From To To Water level will be perfected from 50 feet above water level to

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

\$14,420

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

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VL	IA		PLU	JGGIN	G AN	D ABA	NDON	MENT PL	.AN				
EXCE	d Address of Fa LSIOR MININ IISON PROJE	NG CORP					EXCELSI	ddress of Owne OR MINING ( D PL, 2999 N	CORP	TE 300, PH	IOENIX, A	Z 85018	
	cate Well and C				State AZ			County Cochise		Permit TBD	Number		
Sec	ction Plat - 640 A	Acres		L		ocation De	escription	Coemsc		ТЪЪ			
	<del></del>	N						of <u>se</u> 1/4 of	Section 36	Township	15S Range	22E	
  -  -		-	- <u> </u>	:	Locate we Surface Location	ell in two d	lirections for $N$	Line of quartence of quarter	es of quarter				
w L				. [	_	TYPE OF A	AUTHORIZA	TION		WELL A	CTIVITY		
l " L	<u>i_Li</u> .	_ <b>L</b> _i_i	_ <u>  x</u>			│ Individual Permit │ │ CLASS I │ │ CLASS I │ │ CLASS II							
					Rule					ıs II rine Disposi	al		
	<b>+</b>		- + -			_	1			nhanced Re			
		╌┠╌┼╌├			Number	of Wells	1		🗆 н	ydrocarbon	Storage		
			ļ						CLAS	S III			
		S			Lease Na	me			Well Numb	er 55-917	429, NSH-0	008	
	CA	SING AND TUB	ING RECOR	D AFTER P	LUGGING	UGGING METHOD OF EMPLACEMENT OF CEMENT PLU						LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE L	EFT IN W	EFT IN WELL (FT) HOLE SIZE   The Balance Method							
4.5	Unknown	0		840			4.5	Th	e Dump Baile	r Method			
									e Two-Plug M	ethod			
								Ot	her				
	CEMENTING	TO PLUG AND	ABANDON D	DATA:		PLUG #1	PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of H	lole or Pipe in	which Plug Wil	l Be Placed	(inche		4.5							
-	Bottom of Tub					840							
	Cement To Be olume To Be Pu		g)			78 93							
	ed Top of Plug					2							
Measure	d Top of Plug (i	if tagged ft.)											
	t. (Lb./Gal.)					15.6							
Type Cer	ment or Other N	laterial (Class I	II)			V							
	LIS From	T ALL OPEN H	OLE AND/OF	R PERFORA To	ATED INTE	RVALS AN	ID INTERVA	LS WHERE CAS	SING WILL BE	VARIED (if a	ny) To		
720	FIOIII		840	10				FIOIII			10		
Water	Nater level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to pottom of casing.												
Estimate	d Cost to Plug	Wells											
\$14,4	120												
	ertify under the	e penalty of law			examine	immediate	amiliar with	ible for obtaini	ng the inform	ation, I belie			
	tachments and formation is tru essibliity of fine	e, accurate, an	d complete.	. I am awa		ere are sig	nificant per	naities for subn	nitting false ii	nformation, i	including the	9	
ро	formation is tru	e, accurate, an and imprisonr	d complete. nent. (Ref.	. I am awa	4.32)	ere are sig nature	nificant pe	naities for subn	nitting false ii	nformation,	Date Signed		
Name an	formation is tru essibliity of fine	e, accurate, an and imprisonr (Please type o	d complete. nent. (Ref.	. I am awa	4.32)		nificant per	naities for subn	nitting false ii	nformation,			

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<b>(</b>		A		PI	_UGGII	NG AN	D AB	A١	IDON	MEN	NT PL	٩N			
		d Address of F						Nar	me and Ad	dress	of Owner	/Operator			
		SIOR MININ							XCELSIC ONCORE				TE 300, PH	IOENIX, A	Z 85018
		ate Well and O	Outline Unit on			State AZ	•			Count			Permit TBD	Number	
	<u> </u>	iioii riat - 040 A			•	Surface	Location [	Des	cription						
		1 1 1	N T		]	1/4	of SW 1/4	4 of	SW 1/4 o	of nw	/ 1/4 of	Section 31	Township	15S Range	23E
		<u> </u>	_			Locate w	ell in two	dir	ections fro	om ne	arest line	s of quarter	section and	drilling unit	
	<u> </u>	<u> </u>	$ \vdash$ $+$ $ \vdash$	- 🕂 —		Surface	222								
		<u>i                                    </u>	_	i					N/S) S						
	X			į		and 33			) W Lin		uarter sec	tion.	WELL	ACTIVITY	
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		<u> </u>	_      -			✓ Are	a Permit					CLAS	SS II		
		' ' ' ' +	$ \vdash$ $ \vdash$	_ + _		Rul	е					E	Brine Dispos	al	
				ļ		Numbe	r of Wells	1					nhanced Re	•	
									_				lydrocarbon	Storage	
	S										CLASS III  Well Number 55-917433, NSH-009				
						Lease Name						Well Num	ber 33-917	433, NSH-U	09
	CASING AND TUBING RECORD AFTER PLUGGING								UGGING METHOD OF EMPLACEMENT O						LUGS
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (F		LEFT IN W	/ELL (FT)		HOLE SIZI	E	✓ The	Balance Me	thod		
4.5		Unknown	0		995			4	1.5	4	The	Dump Baile	er Method		
	4				_			#		4		Two-Plug N	lethod		
	=							╬		+	U Oth	er			
		CEMENTING	TO PLUG AND	ABANDO	N DATA:		PLUG #	#1	PLUG #2	2 P	LUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H	ole or Pipe in	which Plug Wil	l Be Place	ed (inche		4.5								
Dept	n to	Bottom of Tub	ing or Drill Pip	e (ft			995								
			Used (each plu	g)			93								
		lume To Be Pu					110	_		4					
		d Top of Plug I Top of Plug (i					2	_		╬					
		. (Lb./Gal.)	ii taggeu it.)				15.6	=							
			Material (Class I	II)			V								
		LIS	T ALL OPEN H	OLE AND/	OR PERFO	RATED INT	ERVALS A	ND	INTERVAL	.s wh	IERE CASI	NG WILL BE	VARIED (if a	iny)	
		From			То	1				Fro	om			То	
813				995											
Wa	ter	level will b	e measured	prior t	o aband	onment	. Casing	ţ w	ill be pe	erfora	ated fro	m 50 fee	et above v	vater leve	l to
bot	ton	n of casing.													
Estin	nate	d Cost to Plug	Wells												
\$1	4,4	20													
							Certific	at	ion						
	atta info	achments and ormation is tru	e penalty of law that, based on le, accurate, an a and imprison	my inquii d comple	ry of those te. I am av	individuals vare that th	s immedia	itely	/ responsi	ble fo	r obtainin	g the inforn	nation, I beli	eve that the	•
Name	and	d Official Title	(Please type o	r print)		Sig	nature							Date Signed	<u> </u>
Vit	Vit Kuhnel, Hydrology Manager														

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<b>V</b> L			PLU	<b>IGGIN</b>	G AN	D ABA	NDON	MENT PL	AN			
EXCE	nd Address of F LSIOR MININ NISON PROJE	NG CORP					EXCELSION	ddress of Owne OR MINING ( D PL, 2999 N	CORP	TE 300, PH	OENIX, AZ	Z 85018
Lo	cate Well and C	utline Unit on			State			Cooking			Number	
	ction Plat - 640 A			L.	AZ			Cochise		TBD		
		N		:		ocation D	_		0.1	7 .	110	99E
			i	L	1/4 c	of <u>SW</u> 1/4	of <u>SW</u> 1/4	of <u>nw</u> 1/4 of	Section 31	Township	15S Range	ZJE
		_      -		1	Locate w	ell in two o	directions fr	om nearest line	s of quarter	section and	drilling unit	
<u> </u>	+	╌┞╌┼╌┝			Surface <sub>「</sub>	105		1				
	<u>i_</u> Li.	_ L _ i _ i						Line of quarter				
Х			ļ ļ	-	and <u>240</u>		/W) <u>VV</u> Lir AUTHORIZA	ne of quarter se	ction.	WELL /	ACTIVITY	
w			E		Indi	vidual Per		IION	CLAS		CHVIII	
-	<u> </u>	_      -			<b>✓</b> Area	Permit			CLAS	S II		
<u> </u>		$ \vdash$ $ \vdash$	_		Rule	9			□в	rine Disposa	al	
			i		Number	of Wells	1			nhanced Re	•	
			<u> </u>			_				ydrocarbon	Storage	
<u> </u>	1 1 1	S							CLAS		404 NICH O	110
				1	Lease Na	me			Well Numb	er 33-917	434, NSH-0	010
	CA	SING AND TUB	ING RECORE	O AFTER P	LUGGING	•						
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	+	EFT IN W	ELL (FT)	HOLE SIZ	E The	e Balance Me	thod		
8.625	Unknown	0		546			8.625		e Dump Baile			
									e Two-Plug M	ethod		
								Cti	ner			
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #1	PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of I	Hole or Pipe in	which Plug Wil	l Be Placed (	inche		8.625	7.875					
-	Bottom of Tub					546	720					
	f Cement To Be		g)			187	50					
	olume To Be Pu	• • •				221	59 546					
	ed Top of Plug (					2	340					
	Vt. (Lb./Gal.)					15.6	15.6					
Type Ce	ment or Other N	laterial (Class I	II)			V	V					
	LIS	T ALL OPEN H	OLE AND/OR	PERFORA	ATED INTE	RVALS AN	ND INTERVA	LS WHERE CAS	ING WILL BE	VARIED (if a	ny)	
	From		W0.0	То				From			То	
546			720									
Wate	r level will b	e measured	prior to	abando	nment.	Casing	will be p	erforated fr	om 50 fee	t above v	vater leve	el to
botto	m of casing.											
Estimate	ed Cost to Plug	Wells										
\$14,	420											
at in	certify under the tachments and formation is tru ossibliity of fine	that, based on e, accurate, an	my inquiry o	of those in I am awa	examine dividuals re that th	immediat	familiar with ely respons	ible for obtaini	ng the inform	ation, I belie	eve that the	e
Name ar	nd Official Title	(Please type o	r print)		Sigr	nature					Date Signed	ı
Vit Kuhnel, Hydrology Manager												
	it Kuhnel, Hydrology Manager											

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<b>AL</b>	r A		PLU	IGGING	AND	) AB	ΔN	IDONI	ME	ENT PL	AN				
	d Address of F									ess of Owner					
	LSIOR MINII IISON PROJE									MINING C		TF 300 PF	HOENIX, AZ	7 85018	
				Sta	to			J		unty		1	Number	2 00010	
	cate Well and C			A						ochise		TBD	Number		
	Mion Flut 6467	N		Sui	face Lo	ocation [	Desc	cription							
	<del>         </del>	<u> </u>			1/4 of	f SW 1/4	4 of	SW 1/4 c	of <u>r</u>	<u>nw</u> 1/4 of	Section 31	Township	15S Range	23E	
	<u> </u>	_  -	_	Loc	cate we	ll in two	dire	ections fr	om i	nearest line	s of quarter	section and	drilling unit		
		_			face				1						
	<u>i_Li</u> .	L_i_i					-			e of quarter					
X			ļ	and				) <u>vv</u> Lin THORIZAT		f quarter sec	ction.	WELL	ACTIVITY		
w	1 1 1		E		-	idual Pe				•	CLA:				
	<u> </u>			<b>✓</b>	✓ Area Permit □ CLASS II										
	<u> </u>	─ <b>┠</b> ─┼─├			Rule Brine Disposal										
	<u> </u>	umber	of Wells	1	_				inhanced Re Iydrocarbon	•					
					CL							SS III	Otorago		
		S		I ea	Lease Name					Well Number 55-917435, NSH-012					
	CA	SING AND TUE	SING RECORE							METH			F CEMENT PI	LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEF	T IN WE	ELL (FT)	1	HOLE SIZ	Έ	✓ The	Palanco Me	thod			
4.5	Unknown	0		490		· · ·	4	.5		✓ The Balance Method  The Dump Bailer Method					
										=	Two-Plug N				
										Oth	er				
	CEMENTING	TO PLUG AND	ARANDON DA	\		PLUG #	14	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of H		which Plug Wil				4.5		FLUG #	-	FLUG #3	FLUG #4	FL0G #3	FLOG #0	FLUG #1	
Depth to	Bottom of Tub	oing or Drill Pip	e (ft			490									
		Used (each plu	ıg)			46									
	olume To Be Pu ed Top of Plug					54	4		4						
	d Top of Plug (					2	=		4						
	t. (Lb./Gal.)					15.6									
Type Cer	ment or Other N	Material (Class I	III)			V									
		ST ALL OPEN H	OLE AND/OR		D INTE	RVALS A	ND	INTERVA			ING WILL BE	VARIED (if a			
430	From		490	То						From			То	1	
		e measured	d prior to a	abandonn	nent.	Casing	g W	ill be pe	erfo	orated fro	om 50 fee	et above v	water leve	el to	
-	m of casing.														
\$14,4	d Cost to Plug	Wells													
\$14,2	+20														
					C	Certific	ati	ion							
		e penalty of law that, based on													
inf	formation is tru	ie, accurate, and and and and and and and and and and	nd complete.	I am aware t	that the		_	-			-			e	
				O. R. 144.3.	1	otur-							Data Ciama	1	
	nel, Hydrolo	(Please type o ov Manager	r print)		Sign	ature							Date Signed	1	
VII IXU	ci, 11yu1010														

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of  $\underline{SW}$  1/4 of  $\underline{NW}$  1/4 of  $\underline{SW}$  1/4 of Section  $\underline{31}$  Township  $\underline{15S}$  Range  $\underline{23E}$ Locate well in two directions from nearest lines of quarter section and drilling unit Location 100 ft. frm (N/S) N Line of quarter section and  $\overline{702}$  ft. from (E/W)  $\overline{W}$  Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II X Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-917436, NSH-013 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 8.625 Unknown 8.625 The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 8.625 7.875 Depth to Bottom of Tubing or Drill Pipe (ft 646 1070 Sacks of Cement To Be Used (each plug) 221 122 Slurry Volume To Be Pumped (cu. ft.) 143 261 Calculated Top of Plug (ft.) 646 Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) 15.6 Type Cement or Other Material (Class III) V LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From From То 1070 646 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

Estimated Cost to Plug Wells

\$14,420

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<b>V</b> L	IA		PLU	JGGIN	G AN	D ABA	NDON	MENT PL	.AN				
Name and Address of Facility EXCELSIOR MINING CORP GUNNISON PROJECT							Name and Address of Owner/Operator  EXCELSIOR MINING CORP  CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018						
_	cate Well and C				State AZ			County		Permit TBD	Number		
						Surface Location Description							
	<del>, , , , , , , , , , , , , , , , , , , </del>					1/4 of <u>SW</u> 1/4 of <u>SW</u> 1/4 of <u>NW</u> 1/4 of Section <u>31</u> Township <u>15S</u> Range <u>23E</u>							
  -  -		╾┠╴┵╼┞ ╾┠╸┽╼┞ ╾┠╸┽╼┞	S	Locate well in two directions from nearest lines of quarter section and drilling unit Surface  Location $221$ ft. frm (N/S) S Line of quarter section and $307$ ft. from (E/W) W Line of quarter section.									
w				  -	TYPE OF AUTHORIZATION WELL ACTIVITY								
. "						Individual Permit				CLASS I			
						✓ Area Permit			L CLAS		Dianagal		
-+									Brine Disposal Enhanced Recovery				
					Number of Wells 1				Hydrocarbon Storage				
									CLASS III				
					Lease Na	me			Well Number 55-917432, NSH-014B				
CASING AND TUBING RECORD AFTER PLUGGING								METH	OD OF EMPL		F CEMENT PI	LUGS	
SIZE	SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE					ELL (FT)	HOLE SIZ	E Th	☐ ✓ The Balance Method				
4.5	.5 Unknown 0 1260						4.5	Th	The Dump Bailer Method				
								Th	The Two-Plug Method				
								Ot	Other				
	OFMENTING	TO DI UO AND	ADANDON D	A.T.A.		PLUG #1	BUUG #	DI 110 #0	DI 110 #4	DI 110 #F	DI 110 #6	DI 110 #7	
CEMENTING TO PLUG AND ABANDON DATA: PLUG Size of Hole or Pipe in which Plug Will Be Placed (inche: 4.5							PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
-						1260							
Sacks of Cement To Be Used (each plug) 118													
Slurry Volume To Be Pumped (cu. ft.)						139							
Calculated Top of Plug (ft.)						2							
Measured Top of Plug (if tagged ft.)													
Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)						15.6							
Type Ce		`				V							
	From	T ALL OPEN H	OLE AND/OR	To	ATED INTE	RVALS AN	ID INTERVA	LS WHERE CAS	SING WILL BE	VARIED (if a	To		
1180	FIOIII		1260	10				FIUII			10		
Water level will be measured prior to aband					nmont	Casing	will bo p	orforated fr	om 50 foo	t abovo v	vator love	ol to	
	m of casing.		a prior to	abando	mineric.	Casing	will be p	errorated ii	om so ree	t above v	vater leve		
J	ed Cost to Plug												
\$14,4	420												
	certify under the				examine		familiar with						
	formation is tru			I am awai	re that th	ere are sig	nificant per	nalties for subn	nitting false ir	nformation,	including the	9	
pc	ssibliity of fine				4.32)								
		and imprison	nent. (Ref. 4			nature				T	Date Signed	I	
Name ar	ssibliity of fine	and imprison	nent. (Ref. 4			nature					Date Signed	i	

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<b>AL</b>	r A		PL	UGGIN	IG AN	D AB	A۱	NDON	MENT	PL	AN			
	d Address of F						Na	me and Ad	Idress of C	)wne	/Operator			
	LSIOR MINII IISON PROJE							XCELSIC ONCORI				TE 300, PH	IOENIX, A	Z 85018
					State		_		County		,		Number	
	cate Well and C ction Plat - 640 A				AZ				Cochise			TBD		
		N				Location						_		
	1 1 1				1/4	of <u>SW</u> 1/	4 of	SW_1/4 c	of <u>SW</u> 1/4	of	Section 31	Township	15S Range	23E
	<u> </u>	╌┠╌┼╌┞			Locate w	ell in two	dir	ections fro	om neares	t line	s of quarter	section and	drilling unit	
	<del>-</del>	╌┠╌┼╼┟			Surface	400		G	ı					
	ユーレユ.	_ i						(N/S) <u>S</u> /) <u>W</u> Lin						
					and £00			JTHORIZAT		er se	Ction.	WELL	ACTIVITY	
w		1 1		E	Ind	ividual Pe	ermi	it			CLAS	SS I		
		$ \vdash$ $\dashv$ $ \vdash$			✓ Are	a Permit					CLA	SS II		
l H	<del>-</del> i − i− -i -	- <b> -</b> - <del> </del> -	Rul	le						Brine Dispos				
l L	<u> </u>	_			Numbe	r of Wells	1					inhanced Re Iydrocarbon	•	
X	·											SS III		
		S			Lease Na	ıme					Well Num	55-224	029, NSH-0	15
	CA	SING AND TUE	ING RECO	RD AFTER					1	/ETH			F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	VELL (FT)		HOLE SIZ	E 7	The	Balance Me	ethod		
8.625	Unknown	0		585			1	8.625		-	Dump Baile			
							][			The	Two-Plug N	lethod		
							4		_	Oth	ier			
	CEMENTING	TO PLUG AND	ABANDON	DATA:		PLUG :	#1	PLUG #2	2 PLUG	#3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in					8.625		7.875						
Depth to	Bottom of Tub	ing or Drill Pip	e (ft			585		820						
	Cement To Be		g)			200		67						
	olume To Be Pu					237	_	79   585						
	d Top of Plug (					L	_	363		_				
Slurry W	t. (Lb./Gal.)					15.6		15.6						
Type Cer	ment or Other N	laterial (Class I	II)			V		V						
		T ALL OPEN H	DLE AND/O		ATED INT	ERVALS A	AND	INTERVAL		CAS	ING WILL BE	VARIED (if a		
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	· level will b m of casing.		ı prior to	abando	onment	Casın	g w	/III be pe	ertorate	a tr	om 50 fe	et above v	water leve	erto
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att	ertify under the tachments and	that, based on	my inquiry	of those i	ndividual	s immedia	ately	y responsi	ible for ob	tainir	ng the inforn	nation, I beli	eve that the	
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	hnel, Hydrolo					- <del>-</del>							370	
	, J = {													

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of  $\underline{SW}$  1/4 of  $\underline{SW}$  1/4 of  $\underline{SW}$  1/4 of Section  $\underline{31}$  Township  $\underline{15S}$  Range  $\underline{23E}$ Locate well in two directions from nearest lines of quarter section and drilling unit Location 483 ft. frm (N/S) S Line of quarter section and 118 ft. from (E/W) W Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II Brine Disposal Rule Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III Well Number 55-224030, NSH-016 s Lease Name CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 8.625 Unknown 8.625 The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 Size of Hole or Pipe in which Plug Will Be Placed (inche 8.625 7.875 Depth to Bottom of Tubing or Drill Pipe (ft 579 702 Sacks of Cement To Be Used (each plug) 198 35 Slurry Volume To Be Pumped (cu. ft.) 234 41 Calculated Top of Plug (ft.) 579 Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.) 15.6 Type Cement or Other Material (Class III) V LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any) From From То 702 579 Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing Estimated Cost to Plug Wells \$14,420

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

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<b>AL</b>	r A		PL	UGGI	NG AN	ID AB	A۱	NDON	ME	ENT PL	AN			
	d Address of F						Na	me and Ac	ddre	ess of Owner	/Operator			
	LSIOR MINII IISON PROJE									MINING C L. 2999 N 4		STE 300. PH	IOENIX, A	Z 85018
					State					unty			Number	
_	cate Well and C ction Plat - 640 A				AZ					ochise		TBD		
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<b> </b>	<del>-</del> i − i− -i -	Ru	le						Brine Dispos					
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		S			Lease Na	ame					Well Num	55-224	099, NSH-0	17
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SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT	) ТО ВЕ	LEFT IN V	VELL (FT)		HOLE SIZ	Έ	✓ The	Balance M	athod		
6.625	Unknown	0		1181			] [	3.625			Dump Bail			
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	CEMENTING	TO PLUG AND	ARANDON	ΠΔΤΔ:		PLUG	<u> </u> #1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in					6.625		1 200 #	_	. 200 #0	1200 #4	1 200 #0	1.200 #6	1 200 #1
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	olume To Be Pu					282			4					
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		ST ALL OPEN H	OLE AND/O			ERVALS /	AND	INTERVA			ING WILL BI	VARIED (if a		
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EXCE	d Address of Fa LSIOR MININ VISON PROJE	NG CORP					EXCELS	OR	ess of Owner MINING C PL, 2999 N	CORP	STE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ	<u> </u>			ounty		Permit TBD	Number	
<u> </u>	3.1011 1 tat	N				ocation D			SW 1/4 of	Section 31	Township	15S Bongo	23E
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w <u> </u>		x - + -	- <del> </del> -   - <del> </del> -	E	✓ Area	vidual Per a Permit		ATIO	N		SS I SS II Brine Disposa Enhanced Re Hydrocarbon SS III	covery Storage	
		S			Lease Na	me				Well Num	55-224	100, NSH-0	18
\$IZE 4.5	WT (LB/FT) Unknown	SING AND TUB TO BE PUT IN			PLUGGING		HOLE SI	ZE	The	e Balance Mo e Dump Bail e Two-Plug I	er Method	F CEMENT P	LUGS
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	Hole or Pipe in			d (inche		4.5							
	Bottom of Tub Cement To Be					992							
_	olume Το Be Ρι					110							
	ed Top of Plug					2							
	d Top of Plug (i	if tagged ft.)				15.0		_					
•	/t. (Lb./Gal.) ment or Other N	Material (Class I	II)			V 15.6		_					
		T ALL OPEN H		OR PERFOR	ATED INTI		ID INTERV	ALS	WHERE CAS	ING WILL BI	E VARIED (if a	iny)	
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at in	ertify under the tachments and formation is tru ossibliity of fine	that, based on ie, accurate, an	my inquir d complet	y of those i te. I am aw	ly examine ndividuals are that th	s immediat	familiar wit ely respon	sible	e for obtainir	ng the inforr	nation, I beli	eve that the	e
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Vit Ku	hnel, Hydrolog	gy Manager											

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EXCE	nd Address of Fa LSIOR MININ NISON PROJE	NG CORP					Name and A EXCELSION CONCOR	OR MIN	ING (	<u> </u>	TE 300, PH	IOENIX, AZ	Z 85018	
Loc	cate Well and C	outline Unit on			State			County				Number		
	ction Plat - 640 A			<u> </u>	AZ			Cochise	9		TBD			
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	<u> </u>	_	- + -		Locate w	ell in two o	directions fi	om neare	st line	es of quarter	section and	drilling unit		
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	$T - \Gamma T$				and <u>804</u>		/w) W Lii		ter se	ction.	)A/E11	OTIV/ITV		
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_	<u> </u>	_			✓ Area					CLA				
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		1 1								CLA	SS III			
		S			Lease Na	me				Well Num	ber 55-224	031, NSH-0	19	
	CASING AND TUBING RECORD AFTER PLUGGING  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  The Balance Method													
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE L	EFT IN W	ELL (FT)	HOLE SIZ	E [	✓ Th	e Balance Me	ethod			
8.625	Unknown	0		638			8.625		Th	e Dump Baile	er Method			
									Th	e Two-Plug N	lethod			
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		TO DI 110 AND	45445645			D. 110 #4	DI US (		0 "0	DI 110 #4	B. 110 #5	51.110.110	51.110 #7	
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				(IIICIIC				=						
	f Cement To Be					219	190							
Slurry V	olume To Be Ρι	ımped (cu. ft.)				258	224							
Calculat	ed Top of Plug	(ft.)				2	638							
Measure	d Top of Plug (i	if tagged ft.)												
	Vt. (Lb./Gal.)					15.6	15.6							
Туре Се	ment or Other N	•	,			V	V							
	From	T ALL OPEN H	OLE AND/OR	PERFORA To	ATED INTE	RVALS AN	ND INTERVA	LS WHER From		SING WILL BE	VARIED (if a	To		
638	FIUIII		~1300					FIOIII				10		
	r level will b		prior to	abando	nment.	Casing	will be p	erforate	ed fr	om 50 fee	et above v	vater leve	el to	
	m of casing.													
	ed Cost to Plug	Wells												
\$14,	420													
						Certifica	ation							
Ιd	certify under the	penalty of law	that I have	personally	examine	d and am	familiar with	the infor	matio	n submitted	in this docur	nent and all		
in	tachments and formation is tru ossibliity of fine	e, accurate, an	d complete.	I am awa	re that th					-			•	
Name ar	nd Official Title	(Please type o	r print)		Sigr	nature						Date Signed	<u> </u>	
	hnel, Hydrolog													
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(V)		A			Р	LUGG	ING A	AND	D AB	A١	IDONI	ME	ENT PL	AN				
		Address of											ess of Owner	•				
		SIOR MIN SON PROJ											MINING C L, 2999 N		STE 3	300, PH	OENIX, AZ	Z 85018
		ate Well and					State AZ						ounty ochise			Permit I	Number	
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w						_			TYPE OF	AU	THORIZAT	ΙΟΝ	N	_		WELL A	CTIVITY	
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														ASS III		g-		
			s			Long	o Nam	no					Well Nur	nbor	55-2240	)35, NSH-0	20	
		C	ASI	NG AND TUE	SING REC	ORD AFT							METH			MENT O	CEMENT PI	LUGS
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		ole or Pipe ir Bottom of Tu				ed (inche			4.5 1582	_		=			╫			
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Name	and	d Official Title	e (F	Please type o	or print)			Sign	ature								Date Signed	
	_	nel, Hydrol																

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<b>V</b> L	17		PLU	IGGING	G AN	D ABA	NDON	MENT PL	AN					
EXCE	d Address of Fa LSIOR MININ NISON PROJE	NG CORP					EXCELSION	ddress of Owne OR MINING ( D PL, 2999 N	CORP	TE 300, PH	IOENIX, AZ	Z 85018		
Loc	cate Well and O	utline Unit on			tate AZ			County		Permit TBD	Number			
Sec	ction Plat - 640 A	Acres				ocation De	escription	Cocilise		ТБО				
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	<u> </u>	╼┠╌┼╼╎			Number	of Wells	1		П	ydrocarbon	Storage			
		<u> </u>							CLAS	S III				
		S		L	ease Nar	ne			Well Numb	er 55-224	032, NSH-0	21C		
	CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE   MET (LPUET)   TO BE PUT IN WELL (ET)   TO BE LEET IN WELL (ET)   HOLE SIZE													
SIZE	WT (LB/FT)	TO BE PUT IN	N WELL (FT)	TO BE LE	FT IN W	ELL (FT)	HOLE SIZ	Έ V Th	e Balance Me	thod				
8.625	Unknown	0		624			8.625		e Dump Baile					
									e Two-Plug M	ethod				
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	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #1	PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
	lole or Pipe in			inche		8.625	7.875							
-	Bottom of Tub					624	1372							
	f Cement To Be olume To Be Ρι		19)			214 252	214							
	ed Top of Plug					2	624							
Measure	d Top of Plug (i	if tagged ft.)												
	/t. (Lb./Gal.)					15.6	15.6							
Type Cei	ment or Other N	•	•			V	V							
	From	T ALL OPEN H	OLE AND/OR	PERFORAT	TED INTE	RVALS AN	ND INTERVA	LS WHERE CAS	SING WILL BE	VARIED (if a	ny) To			
624			~1372											
	· level will b n of casing.		d prior to a	abandon	ıment.	Casing	will be pe	erforated fr	om 50 fee	t above v	vater leve	el to		
Estimate	ed Cost to Plug	Wells	F											
\$14,4	420													
att int	ertify under the tachments and formation is tru ossibliity of fine	that, based on e, accurate, ar	my inquiry o	of those ind I am awar	examine lividuals e that the	immediat	familiar with ely respons	ible for obtaini	ng the inform	ation, I belie	eve that the	ð		
Name an	d Official Title	(Please type o			Sign	ature					Date Signed	l		
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	d Address of F									s of Owner	•			
	LSIOR MININ ISON PROJE									MINING C L, 2999 N 4		TE 300, PH	IOENIX, A	Z 85018
	ate Well and C				State AZ				Cou	inty chise		Permit TBD	Number	
360	tion riat - 040 A				Surface L	ocation [	Des	cription						
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	X											SS III	Otorago	
		S			Lease Na	me					Well Num	55-224	097, NSH-0	22
	CA	SING AND TUB	ING RECO	RD AFTER					T	METH			F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)	Ti	HOLE SIZE	E	✓ The	Balance Me	athod		
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		TO PLUG AND				PLUG #	<b>£1</b>	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
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	olume To Be Pu	• •	9/			270	=		=					
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Measure	d Top of Plug (i	if tagged ft.)												
_	t. (Lb./Gal.)					15.6								
Type Cer	nent or Other N	Material (Class I	II)			V								
	LIS	ST ALL OPEN H	OLE AND/O	R PERFOR	ATED INTE	ERVALS A	ND	INTERVAL	LS W	HERE CAS	ING WILL BE	VARIED (if a	iny)	
1010	From		1101	То					F	rom			То	
1010			1131											
		e measured	d prior to	abando	onment.	. Casing	, w	ill be pe	erfo	rated fro	om 50 fee	et above v	vater leve	el to
bottor	n of casing.													
Estimate	d Cost to Plug	Wells												
\$14,4	120													
att inf	achments and ormation is tru	e penalty of law that, based on ie, accurate, an e and imprisoni	my inquiry id complete	of those i	y examine ndividuals are that th	immedia	fan itely	niliar with / responsi	ible f	for obtainin	g the inforn	nation, I beli	eve that the	•
Name an	d Official Title	(Please type o	r print)		Sign	nature							Date Signed	
Vit Kul	nnel, Hydrolog	gy Manager												

<b>⊘</b> □	ГА		PL	UGGIN	NG AN	D AB	٩N	IDONN	/ENT	PL	AN			
	d Address of F						Nar	ne and Ad	dress of O	wne	r/Operator			
	LSIOR MINII ISON PROJE							XCELSIO ONCORD				TE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ	•			County Cochise			Permit TBD	Number	
360	.tion Flat - 040 /				Surface L	ocation [	Des	cription						
	1 1 1	N I i i			1/4 0	of ne 1/4	4 of	SW 1/4 o	f SW 1/4	of	Section 31	Township	15S Range	23E
	<u> </u>	_			Locate w	ell in two	dir	ections fro	m neares	t line	s of quarter	section and	drilling unit	
					Surface						-		_	
	<u> </u>				P. Contract of the Contract of	893 ft. fr	m (	N/S) S	Line of qu	arter	section			
		╼┠╸┽╼╎			and <u>1055</u>	ft. from (l	E/W	) E Line	e of quarte	er se	ction.			
w —	<del>                                     </del>		_	E				THORIZAT	ION				ACTIVITY	
	ユーレユ.	_L_i_i		_		vidual Pe	rmi	t			CLAS			
			ĵ		✓   Area	a Permit					L CLAS		-I	
	+	<b>-  - + -</b>	-+-				4					Brine Dispos Inhanced Re		
l	<u> </u>	<b>-⊩</b> ∔-⊦			Numbe	r of Wells	1					lydrocarbon	•	
												SS III	Ū	
		S			Lease Na	me					Well Numl	55-224	034, NSH-0	23
	CA	SING AND TUE	ING RECO	RD AFTER					N	IETH			F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT	то ве	LEFT IN W	ELL (FT)	Ti	HOLE SIZE		The	Balance Me	athod		
8.625	Unknown	0		645			8	3.625	T È		Dump Baile			
							] [			-	Two-Plug N			
										Oth	ier			
						T		ı			T	1	1	1
		TO PLUG AND				PLUG #	ŧ1	PLUG #2	PLUG	#3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		which Plug Wil bing or Drill Pip		d (inche		8.625 645	_	7.875		_				
		Used (each plu				221	_	228		_				
	olume To Be Pu	<u> </u>	37			261	一	270		$\equiv$				
Calculate	ed Top of Plug	(ft.)				2	ī	645						
Measure	d Top of Plug (	if tagged ft.)												
_	t. (Lb./Gal.)					15.6		15.6						
Type Cer	ment or Other M	laterial (Class	II)			V		V						
		ST ALL OPEN H	OLE AND/O		RATED INTE	ERVALS A	ND	INTERVAL		CAS	ING WILL BE	VARIED (if a		
0.45	From		1449	То					From				То	
645			1442											
Water	level will b	e measured	prior to	abando	onment.	. Casing	, w	ill be pe	rforate	d fr	om 50 fee	et above v	vater leve	l to
bottor	n of casing.													
Estimate	d Cost to Plug	Wells												
\$14,4	420 													
att inf	achments and ormation is tru	e penalty of law that, based on ie, accurate, an e and imprisoni	my inquiry id complete	of those in a land	ly examine individuals are that th	immedia	fan itely	niliar with responsi	ble for obt	ainiı	ng the inform	nation, I beli	eve that the	
Name an	d Official Title	(Please type o	r print)		Sigi	nature							Date Signed	
Vit Kul	hnel, Hydrolo	gy Manager												

<b>⊘</b> □	FA		PL	UGGIN	IG AN	D ABA	41	IDONN	MEN.	T PL	AN			
	d Address of F						Nar	ne and Ad	dress o	of Owner	/Operator			
	LSIOR MININ							XCELSIO ONCORD				TE 300, PH	IOENIX, AZ	Z 85018
	cate Well and C				State AZ				County Cochis			Permit TBD	Number	
360	Stion Flat - 040 A				Surface L	ocation D	)es	cription						
	1 1 1	N I I			1/4 0	of ne 1/4	1 of	SW 1/4 o	f SW 1	1/4 of	Section 31	Township	15S Range	23E
	<u> </u>	_			Locate w	ell in two	dire	ections fro	om near	rest line	s of quarter	section and	drilling unit	
					Surface						·			
	<b>+</b>		- $+$ $  $			858 ft. fr	m (	N/S) S	Line of	quarter	section			
	<u> </u>	- <del> -  </del> -			and $993$	ft. from (E	E/W	) E Line	e of qua	arter sec	tion.			
w —			-	E	]			THORIZAT	ION				ACTIVITY	
	1_L1.	_	i l			vidual Pe	rmi	t			L CLAS			
					Rul	a Permit					L CLAS	is II rine Disposi	al	
	+		- + -				1	_				nhanced Re		
	<b></b>	_			Number	r of Wells	1					ydrocarbon	-	
											CLAS	SS III		
		S			Lease Na	me					Well Numl	55-224	033, NSH-0	24
	CA	SING AND TUB	ING RECO	RD AFTER						METHO			F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT	) ТО ВЕ	LEFT IN W	ELL (FT)		HOLE SIZE	E	✓ The	Balance Me	thad		
8.625	Unknown	0		625			8	3.625			Dump Baile			
										=	Two-Plug N			
										Oth	er			
								1					1	1
Size of L	CEMENTING Hole or Pipe in	TO PLUG AND				PLUG #	:1	PLUG #2	PLI	.UG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Bottom of Tub			ı (IIICIIE:		625	_	1440	-					
	Cement To Be					214	Ħ	234						
Slurry V	olume Το Be Ρι	ımped (cu. ft.)				253		276						
Calculat	ed Top of Plug	(ft.)				2		625						
	d Top of Plug (	if tagged ft.)				1.7.0								
_	/t. (Lb./Gal.) ment or Other N	Antorial (Class I				15.6	_	15.6	4					
туре се				D DEDEOD	ATED INT	V	ND	V	e Whe	DE CASI	NC WILL BE	VARIED (if a	m. ()	
	From	ST ALL OPEN H	JLE AND/O	To	AIEDINIE	ERVALS A	ND	INTERVAL	Fror		ING WILL BE	VARIED (II a	To	
625			1440											
Wato	r level will b	o moasuro	d prior to	b-nd	nmont	Casing		ill bo po	rfors	tod fro	om EO foo	+ 25040 1	water leve	1+0
	m of casing.		ı prior te	Japanu	Jiiiieiii	. Casing	, vv	ili be pe	riora	iteu ir	יוון און זון זון	t above v	vater leve	110
_	ed Cost to Plug													
\$14,4		Wells												
711,	120													
						0 - 4151								
						Certific	atı	ion						
	ertify under the tachments and													
in	formation is tru	ie, accurate, an	d complete	e. I am aw	are that th		-	-			-			•
_	ssibliity of fine		-	. 40 CFR 1										
	nd Official Title		r print)		Sigi	nature							Date Signed	<u> </u>
Vit Ku	hnel, Hydrolog	gy Manager											<u></u>	

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VL	17		PLU	JGGIN	G AN	D ABA	NDON	MENT PL	_AN					
EXCE	d Address of Fa LSIOR MININ NISON PROJE	NG CORP					EXCELSION	ddress of Own OR MINING D PL, 2999 N	CORP	TE 300, PH	IOENIX, A	Z 85018		
	cate Well and C				State AZ			County Cochise		Permit TBD	Number			
Sec	ction Plat - 640 A	Acres		<u> </u>		ocation D	escription	Cocinse		Прр				
	<del></del>	N		Ī				of SW 1/4 of	Section 31	Township	15S Range	23E		
	<u>i_Li</u> .	_ <b>L</b> _i_i	_ i_	-				om nearest lin						
		-	- <del> </del> -   - <del> </del> -	:	Surface Location	993 ft. frn	m (N/S) S	Line of quarte	er section					
w —	+ + +		<del>-  </del> =				AUTHORIZA <sup>*</sup>	TION			ACTIVITY			
	1_L1					vidual Peri a Permit	mit		CLAS					
					Rule					srine Dispos	al			
	<b>+</b>	_ <b> </b>	-   -			of Wells	1			nhanced Re				
	<u> </u>	╼┠╌┼╼╎			Numbei	r of Wells [	1		н	lydrocarbon	Storage			
	X	<u> </u>							CLAS					
		S		1	Lease Na	me			Well Numl	55-224	158, NSH-0	25		
	CA	SING AND TUE	ING RECOR	D AFTER P	LUGGING	9		MET	HOD OF EMPL	ACEMENT O	F CEMENT PI	LUGS		
CASING AND TUBING RECORD AFTER PLUGGING  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  4.5 Unknown 0 1551 The Dump Bailer Method														
4.5	Unknown	0		1551			4.5		•					
									_	lethod				
									iner					
	CASING AND TUBING RECORD AFTER PLUGGING  WEIN Number  WEIN Number  WEIN Number  WEIN Number  WEIN Number  WEIN Number  WEIN Number  The Balance Method  The Balance Method													
				(inche										
-														
	olume To Be Pu		19)			171								
	ed Top of Plug					2								
	d Top of Plug (i													
Slurry W	/t. (Lb./Gal.)					15.6								
Type Cei	ment or Other N	laterial (Class	III)			V								
		T ALL OPEN H	OLE AND/OR		TED INTE	RVALS AN	ND INTERVA		SING WILL BE	VARIED (if a				
1480	From		1551	То				From			То			
												. 1		
	level will b	e measured	d prior to a	abandoı	nment.	Casing	will be p	erforated fi	rom 50 fee	et above v	vater leve	el to		
	m of casing.													
\$14,4	ed Cost to Plug 420	wells												
						Certifica	otion							
att inf	ertify under the tachments and formation is tru ossibliity of fine	that, based on e, accurate, ar	my inquiry on the my inquiry of the my inquiry o	of those in I am awa	examine dividuals re that th	d and am f	familiar with ely respons	ible for obtain	ing the inform	nation, I beli	eve that the	e		
Name an	d Official Title									1		ı		
		(Please type o	r print)		Sign	nature					Date Signed			
Vit Kul	hnel, Hydrolog		or print)		Sign	nature					Date Signed			

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VL			PLU	JGGIN	G AN	D ABA	NDON	MENT PL	.AN					
EXCE	d Address of Fa LSIOR MININ IISON PROJE	IG CORP					EXCELSION	ddress of Owne OR MINING ( D PL, 2999 N	CORP	TE 300, PH	IOENIX, A	Z 85018		
Loc	ate Well and O	utline Unit on			State			County Cochise			Number			
Sec	tion Plat - 640 A	Acres			AZ			Cocnise		TBD				
		N		ľ		ocation D			0.1	7 1	110	99E		
				L				of <u>SW</u> 1/4 of			15S Range			
				1	Locate w	ell in two o	directions fr	om nearest lin	es of quarter	section and	drilling unit			
<u> </u>	$\dot{+}$ $-\dot{+}$ $\dot{-}$	− <b>├</b> ─┼─├			Surface	010	C	1						
L	<u> </u>							Line of quarte						
				-	and 131		AUTHORIZA		ction.	WELL	ACTIVITY			
w			E		Indi	vidual Per			☐ CLAS					
-	<u> </u>	_  -			<b>✓</b> Area	Permit			CLAS	S II				
		▃▐▃╶┆ <mark></mark> ╶╴┆			Rule	9			□в	rine Dispos	al			
			i		Number	of Wells	1			nhanced Re	•			
	$\overline{}$		<u> </u>			_				ydrocarbon	Storage			
<u> </u>		S							CLAS		noo Nott o	.00		
		3		ı	Lease Na	me			Well Numb	er 55-224	036, NSH-0	126		
	CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE WELL RETAIN WELL (ET) TO BE LEFT IN WELL (ET) LIGHT SIZE													
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE L	EFT IN W	ELL (FT)		Έ / Th	e Balance Me	thod				
8.625	Unknown	0		625			8.625	_ =	e Dump Baile					
									e Two-Plug M	ethod				
									her					
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #1	I PLUG#	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Size of H	lole or Pipe in v					8.625	7.875							
Depth to	Bottom of Tub	ing or Drill Pip	e (ft			625	900							
	Cement To Be		g)			214	79							
	olume To Be Pu					253	93							
	ed Top of Plug d Top of Plug (i	` ,				2	625							
	t. (Lb./Gal.)	r tagged it.)				15.6	15.6							
	ment or Other N	laterial (Class I	II)			V	V							
7,		•		PERFORA	TED INTE			LS WHERE CAS	SING WILL BE	VARIED (if a	nv)			
	From			To				From			To			
625			900											
Water	level will b	e measure	nrior to	ahandoi	nmant	Casing	will be n	orforated fr	om 50 fee	t ahove v	vater leve	al to		
	n of casing.	c measuret	A PITOL LO	abanaoi		Cusing	will be b	ci ioiateu II	5111 50 166	t above v	vater leve	., 10		
	d Cost to Plug	Wells												
\$14,4														
,-	0													
att inf	ertify under the tachments and formation is tru essibliity of fine	that, based on e, accurate, an	my inquiry o	of those in	examine dividuals re that th	immediat	familiar with ely respons	ible for obtaini	ng the inform	ation, I beli	eve that the	•		
				.5 0110 144	-	-4				ı	D-4: 0'			
	d Official Title	(Please type o	r print)		Sigr	nature					Date Signed	1		
	hmal IIl1	Mau												
VII KU	hnel, Hydrolog	gy Manager												

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<b>⊘</b> □	ГА		PL	UGGIN	IG AN	D AB	A۱	NDON	ME	NT PL	AN			
	d Address of F						Nar	me and Ad	dres	ss of Owner	/Operator			
	LSIOR MININ									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018
	cate Well and C				State AZ	<u> </u>				inty chise		Permit TBD	Number	
Sec	11011 F1at - 040 A			-	Surface L	ocation [	Des	cription						
	1 1 1	N I I			1/4	of ne 1/4	4 of	se1/4 c	of S	W 1/4 of	Section 31	Township	15S Range	23E
	<u> </u>	_		•	Locate w	ell in two	dir	ections fro	om n	nearest line	s of quarter	section and	drilling unit	
					Surface						•			
	<b>+</b>		-+- $ $			1254 t. fr	rm (	(N/S) S	Line	e of quarter	section			
	<u> </u>	- <b></b>	-+-1		and $225$	ft. from (	E/W	/) ELin	e of	quarter sec	ction.			
w	<del>                                     </del>			E				ITHORIZAT	ION				ACTIVITY	
	ユーレユ.	_L_i_i		vidual Pe	rmi	it			CLA					
			V Area	a Permit					CLA	SS II Brine Dispos	-1			
	+	_								ine ווspos nhanced Re				
	<u> </u>	$\stackrel{\mathbf{x}}{-}$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	Numbe	r of Wells	1					lydrocarbon	•			
										SS III	Otorago			
		s			Lease Na						Well Num	55-917	777, NSH-0	29
	CA	SING AND TUB	ING RECO	RD AFTER						METH		Dei	F CEMENT PI	
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)		HOLE SIZI	E	✓ The	Balance Me	s thood		
2.375	Unknown	0		709			2	2.375			Dump Baile			
										=	Two-Plug N			
										Oth	-			
	CEMENTING	TO PLUG AND	ABANDON	DATA:		PLUG #	<b>‡</b> 1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		which Plug Wil		d (inche		2.375								
		oing or Drill Pip				709	_		4					
	olume To Be Pu	Used (each plu	9)			18.6	_		=					
	ed Top of Plug					2	=		=#					
	d Top of Plug (					L.	=		۲ŀ					
Slurry W	t. (Lb./Gal.)					15.6								
Type Cer	ment or Other N	Material (Class I	III)			V								
	LIS	ST ALL OPEN H	OLE AND/O	R PERFOR	ATED INT	ERVALS A	ND	INTERVAL	LS W	VHERE CAS	ING WILL BE	VARIED (if a	iny)	
	From			То					F	rom			То	
604			709											
Water	level will b	e measured	prior to	abando	nment	. Casing	ξW	ill be pe	erfo	orated fro	om 50 fee	et above v	water leve	el to
	m of casing.		·											H
Estimate	d Cost to Plug	Wells												
\$14,4	20													
att inf	achments and ormation is tru	e penalty of law that, based on le, accurate, an e and imprison	my inquiry id complete	of those in	y examine ndividuals are that th	immedia	far	niliar with y responsi	ible 1	for obtainin	g the inforn	nation, I beli	eve that the	9
Name an	d Official Title	(Please type o	r print)		Sign	nature							Date Signed	l
Vit Ku	hnel, Hydrolog	gy Manager												

<b>⊘</b> □	FA		PL	UGGIN	G AN	D AB	41	IDON	MEI	NT PL	AN			
	d Address of F									s of Owner				
	LSIOR MINI									IINING C , 2999 N 4		TE 300, PH	IOENIX, A	Z 85018
	cate Well and C	Outline Unit on			State AZ				Coc			Permit TBD	Number	
360	tion Flat - 040		<del></del>		Surface L	ocation D	)es	cription						
	1 1 1	N I I I			1/4 (	of <u>se</u> 1/4	1 of	<u>ne</u> 1/4 o	of SW	<u>V</u> 1/4 of	Section 31	Township	15S Range	23E
	<u> </u>	_  -	_		Locate w	ell in two	dire	ections fro	om ne	earest line	s of quarter	section and	drilling unit	
					Surface									
	$\top$		- T — I		Location	631 ft. fr	m (	n/s) N	Line	of quarter	section			
_	<u> </u>	╼┠╌┼╼╎			and <u>212</u>					quarter sec	tion.			
w	+ + +		╼┿═┩┎	<b>=</b>				THORIZAT	ION				ACTIVITY	
	ユーレユ			vidual Pe a Permit	rmi	t			CLA					
		X	Rule							ss II Brine Dispos	al			
	<b>+</b>				1	_				nhanced Re				
	<u> </u>	<b></b>	Number	r of Wells	1				П н	lydrocarbon	Storage			
											CLA	SS III		
		S			Lease Na	me					Well Num	ber 55-917	775, NSH-0	30
	C.A	ASING AND TUB	ING RECOF	RD AFTER F	LUGGING	3				METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE L	EFT IN W	ELL (FT)		HOLE SIZE	E	✓ The	Balance Me	thad		
2.375	Unknown	0		706		· , ,	2	2.375		=	Dump Baile			
										=	Two-Plug N			
										Oth	er			
						1		1		1		1	1	1
0:		G TO PLUG AND				PLUG #	1	PLUG #2	2 F	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		which Plug Wil bing or Drill Pip		(inche:		706	+		╬					
		Used (each plu				19.5	_		⇟					
Slurry V	olume To Be P	umped (cu. ft.)				23								
Calculate	ed Top of Plug	(ft.)				2								
	d Top of Plug (	(if tagged ft.)				1.7.0								
	t. (Lb./Gal.)	Material (Class I				15.6	_		╬					
Type Cel				D DEDEOD	TED INT	V	ND	INTERVAL	C W/L	HEDE CASI	NC WILL BE	VARIED (if		
	From	ST ALL OPEN H	PLL AND/O	To	- 1 FD IN 1 E	LIVALS A	מויו	MIENVAL		rom	AVILL BE	י אטואובה (וו ג	To	
600			706										-	
Water	· level will h	oe measured	nrior to	ahando	nment	Casing	Γ \Λ/	ill he ne	rfor	rated fro	om 50 fe	et ahove v	water leve	elto
	n of casing		, p. 101 to	abanao			,	50 pc		. acca	J 50 i.e.	er above .	vater leve	
_	d Cost to Plug													
\$14,4		,												
ΨΞ :) :														
						Certific	ati	ion						
1.	artify under th	e nenalty of law	that I have	nareanall					the i-	nformatica	submitted	in thic doo	ment and all	
		e penalty of law ∣that, based on												
		ue, accurate, an e and imprisonr				ere are si	gni	ficant pen	alties	s for subm	itting false i	nformation,	including the	9
		(Please type o	•		-	nature						1	Date Signed	<u> </u>
	hnel, Hydrolo		, ,,,,,,,			.utui 6							Date Oigned	
	, 11j ul 010	ov												

<b>(</b>		A		PI	LUGGII	NG AN	D AB	41	NDON	IENT P	_AN			
		Address of F								dress of Own				
		SIOR MININ								R MINING PL, 2999 N		STE 300, PI	HOENIX, A	Z 85018
		ate Well and C	Outline Unit on			State AZ				County Cochise		Permit TBD	Number	
	360	11011 F1at - 040 F			-	Surface I	Location D	Des	cription					
		1 1 1	N I		1	1/4	of <u>nw</u> 1/4	4 of	SW 1/4 o	f_ <u>nw</u> 1/4 of	Section 31	Township	15S Range	23E
		<u> </u>	_			Locate w	ell in two	dir	ections fro	m nearest li	nes of quarte	r section and	I drilling unit	
				ļ		Surface							-	
	X	+					627 ft. fr	m (	N/S) S	Line of quart	er section			
		<u> </u>	_      -	- + -		and <u>117</u>	ft. from (I	E/W	/) E Line	e of quarter s	ection.			
w				_	E				THORIZAT	ION			ACTIVITY	
		ilii.	_				ividual Pe	rmi	t			ASS I		
						✓ Are	a Permit					NSS II	-1	
		+	$ \vdash$ $+$ $ \vdash$	-+-					_			Brine Dispos Enhanced Re		
		<u> </u>	_	_ ‡		Numbe	r of Wells	1				Hydrocarbor	•	
												ASS III	. Gro.ugo	
			s		-"						Well Nun	55-917	782, NSH-0	31
		CA	SING AND TUB	ING REC	ORD AFTER	Lease Na				MET		ibei	OF CEMENT P	
SIZ	Ε	WT (LB/FT)	TO BE PUT IN	WELL (F	т) то ве	LEFT IN W	/ELL (FT)		HOLE SIZE	╛┍┰	he Balance M	athad		
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								ĪĒ		_ =	he Two-Plug			
											ther			
		CEMENTING	TO PLUG AND	ABANDO	N DATA:	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
			which Plug Wil		ed (inche		2.375 805							
			oing or Drill Pip				_							
		lume To Be Pu	Used (each plu	9)			21 25	_						
		d Top of Plug	· · · · ·				2	=						
		Top of Plug (i					£	=			1			
Slurr	y W	. (Lb./Gal.)					15.6							
Туре	Cen	nent or Other N	/laterial (Class I	II)			V							
		LIS	T ALL OPEN H	OLE AND/	OR PERFO	RATED INT	ERVALS A	ND	INTERVAL	S WHERE CA	SING WILL B	E VARIED (if	any)	
		From			To	)				From			То	
721				805										
Wa	ter	level will b	e measured	d prior	to aband	onment	. Casing	ţ W	ill be pe	rforated f	rom 50 fe	et above	water leve	el to
		n of casing.		•					·					F
Estin	ate	d Cost to Plug	Wells				-1							
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	atta infe	achments and ormation is tru	e penalty of law that, based on le, accurate, an a and imprison	my inqui Id comple	ry of those te. I am av	lly examine individuals vare that th	s immedia	far tely	niliar with / responsi	ble for obtair	ing the infor	mation, I beli	eve that the	Đ
Name	and	d Official Title	(Please type o	r print)		Sig	nature						Date Signed	ı
Vit	Kuh	nel, Hydrolog	gy Manager											

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<b>⊘</b> E	ΓA		PL	UGGII	NG AN	D ABA	41	IDON	ИΕΙ	NT PL	AN			
	d Address of F						Nar	me and Ad	ldress	s of Owner	/Operator			
	LSIOR MINII IISON PROJE									IINING C		TE 300 PE	IOENIX, A	Z 85018
					State				Cour				Number	2 00010
	cate Well and C				AZ					chise		TBD	itailibei	
					Surface I	Location D	)es	cription						
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	<u> </u>	_	_ 그 ㅡ ㅣ		Locate w	ell in two	dire	ections fro	om ne	earest line	s of quarter	section and	drilling unit	
			ļ		Surface									
	T — F T		- <del></del>		Location	438 ft. fr	m (	N/S) S	Line	of quarter	section			
_	<u> </u>				and <u>194</u>					quarter sec	tion.			
w	<del>                                     </del>		<del>-                                    </del>	E				THORIZAT	ION				ACTIVITY	
	<b></b>	_		ividual Pe a Permit	rmi	t			CLAS					
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	<b>+</b>	_			1	_				nhanced Re				
		_	Numbe	r of Wells	1				□ ⊦	lydrocarbon	Storage			
		1 1									CLA:	SS III		
		S			Lease Na	me					Well Num	ber 55-917	783, NSH-0	32
	CA	SING AND TUB	ING RECC	ORD AFTER	PLUGGIN	G				METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (F	г) то ве	LEFT IN W	/ELL (FT)		HOLE SIZE	E	✓ The	Balance Me	thad		
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	<u>_</u>	which Plug Wil bing or Drill Pip		ea (inche:		2.375 804	+		₩					
		Used (each plu				21	=		₩					
Slurry V	olume To Be Pi	umped (cu. ft.)				25								
Calculate	ed Top of Plug	(ft.)				2								
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	t. (Lb./Gal.)	Material (Class I				15.6	4		4					
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	n of casing.		i pi ioi t	o abanu	omment	. Casing	, vv	ili be þe	21101	rateu irt	יוון און זון	et above v	vater leve	110
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Ş14, <sup>2</sup>	+20													
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		that, based on ie, accurate, an		-			-	-			_			)
		and imprison						-					-	
Name an	d Official Title	(Please type o	r print)		Sig	nature							Date Signed	I
Vit Ku	hnel, Hydrolo	gy Manager												
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**\$EPA** 

<b>⊘</b> [		A			Р	LUGGI	NG AN	ID AB	A۱	NDONI	ME	ENT PL	AN			
		Address of										ess of Owner				
		SIOR MIN										MINING C L, 2999 N		STE 300, PI	IOENIX, A	Z 85018
		ate Well and		utline Unit or	ı		State AZ					unty ochise		Permit TBD	Number	
_		1011 1 141 - 04	<u> </u>	N		_	Surface	Location	Des	cription						
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		⊥	L _    -   _				Surface Location	1170 <sub>ft. 1</sub>	frm (	(N/S) N	Lin	nearest line ne of quarter of quarter	section	section and	drilling unit	
۱۸/						-				JTHORIZAT				WELL	ACTIVITY	
VV	Sur Loc and X X X X X X X X X X X X X X X X X X X								erm	it			CLA	SS I		
	Sufficional Coca and Sufficion							a Permit Ie					CLA			
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_	CEMENTING TO PLUG AND ABANDON DATA:								s <u>1</u>					lydrocarbon	-	
	CASING AND TUBING RECORD AFTER PLUC SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT  5 Unknown 0 590													SS III	o to tugo	
				s			Lease Na	ama					Well Num	55-224	933, NSM-(	001
			CA:	SING AND TU	BING REC	ORD AFTER						METH			F CEMENT P	LUGS
SIZE										HOLE SIZ	Έ					
3.5								. ,		3.5		=	Balance Me Dump Bail			
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Ci								PLUG	#1	PLUG #	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
						eu (mone:		1150								
								65								
Slurry	Vo	lume To Be	Pu	mped (cu. ft.)				77								
Calcula	ate	d Top of Plu	ıg (	ft.)				2								
		Top of Plug	g (i	tagged ft.)				17.0								
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		Cost to Pl	ug	Wells												
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i	atta info	achments ar ormation is	nd 1 tru	penalty of la hat, based o e, accurate, a and imprisor	n my inqui nd comple	iry of those ete. I am av	individual vare that t	s immedi	n faı atel	miliar with y responsi	ible	for obtainir	g the inforn	nation, I beli	eve that the	9
Name a	and	d Official Tit	le	(Please type	or print)		Sig	nature							Date Signed	I
Vit K	uh	nel, Hydro	log	y Manager												

**⊕EPA** 

<b>AL</b>			PLU	IGGIN	G AN	D AB	ΑN	DON	ИΕ	NT PL	AN			
Name an	d Address of F	acility					Nam	e and Ad	ldres	s of Owner	/Operator			
	LSIOR MINI									MINING C		TTE OCO PT	IOTAITS: A	7.05040
GUNN	IISON PROJE	.C1					CO	DNCORE	) PL	., 2999 N 4	14TH ST, S	1E 300, PE	IOENIX, A	Z 85018
Loc	cate Well and C	Outline Unit on			State AZ				Cou	nty chise			Number	
Sec	ction Plat - 640	Acres		L		ocation D	Doco	rintion	Coc	liise		TBD		
		N		3					c CV		o 21	¬ <b>-</b>	15C -	93F
				L									15S Range	
	<u> </u>	╼┠╌┼╼╏	$-\dagger$	L	ocate w	ell in two	dire	ctions fro	om n	earest line	s of quarter	section and	drilling unit	
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	$ \mathbf{x} $								lydrocarbon SS III	Storage				
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			ease Na						Well Num	Jei				
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		EFT IN W	ELL (FT)	_	OLE SIZE	E	=	Balance Me						
4.5	Unknown	U			4.	.3	=	=	Dump Baile					
					╬		=	The	· Two-Plug N	lethod				
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	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #	<b>‡</b> 1	PLUG #2	2 1	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in	which Plug Wi	II Be Placed (	inche		4.5								
	Bottom of Tub					1000	4		4					
	Cement To Be olume To Be Pu		ug)			97	=		4					
	ed Top of Plug					2	=		╬					
	d Top of Plug (					<u>د</u>								
Slurry W	/t. (Lb./Gal.)					15.6								
Type Cer	ment or Other I	Material (Class	III)			V								
	LIS	ST ALL OPEN H	IOLE AND/OR	PERFORA	TED INTE	RVALS A	ND I	NTERVAL	LS W	HERE CASI	ING WILL BE	VARIED (if a	any)	
F0~	From		1000	То					Fı	rom			То	
507			1000											1
II.	level will b		d prior to	abandor	nment.	Casing	g wi	ll be pe	erfo	rated fro	om 50 fee	et above v	water leve	el to
bottor	m of casing.													
	d Cost to Plug	Wells												
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	ertify under the													
inf	tachments and formation is tru essibliity of fine	ue, accurate, a	nd complete.	I am awar	e that th		_	-			-			•
Name an	d Official Title	(Please type of	or print)		Sigr	nature							Date Signed	<u> </u>
	hnel, Hydrolo													

PLUG #7

OMB No. 2040-0042 Approval Expires 11/30/2014 **United States Environmental Protection Agency ⊕EPA** Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN Name and Address of Owner/Operator Name and Address of Facility **EXCELSIOR MINING CORP EXCELSIOR MINING CORP** GUNNISON PROJECT CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018 State Permit Number Locate Well and Outline Unit on AZ Cochise TBD Section Plat - 640 Acres Surface Location Description 1/4 of  $\underline{SW}$  1/4 of  $\underline{SW}$  1/4 of  $\underline{SW}$  1/4 of Section  $\underline{31}$  Township  $\underline{15S}$  Range  $\underline{23E}$ Locate well in two directions from nearest lines of quarter section and drilling unit Location 259 ft. frm (N/S) S Line of quarter section and  $\overline{354}$  ft. from (E/W)  $\overline{W}$  Line of quarter section. TYPE OF AUTHORIZATION **WELL ACTIVITY** Individual Permit CLASS ✓ Area Permit CLASS II Rule Brine Disposal Enhanced Recovery Number of Wells 1 Hydrocarbon Storage CLASS III s 55-224935, NSM-003 Lease Name Well Number CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE ▼ The Balance Method 4.5 Unknown The Dump Bailer Method The Two-Plug Method Other **CEMENTING TO PLUG AND ABANDON DATA:** PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 Size of Hale or Dine in which Dlug Will De Dlaced (inche

From	То			From			То	
LIST ALL OPEN HO	OLE AND/OR PERFORATED INTE	RVALS AND	INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	ny)	
Type Cement or Other Material (Class I	II)	V						
Slurry Wt. (Lb./Gal.)		15.6						
Measured Top of Plug (if tagged ft.)								
Calculated Top of Plug (ft.)		2						
Slurry Volume To Be Pumped (cu. ft.)		114						
Sacks of Cement To Be Used (each plu	g)	97						
Depth to Bottom of Tubing or Drill Pip	e (ft	1028						
Size of fible of Fipe in which Flug will	i De Flaceu (iliche	4.3						

Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.

Estimated Cost to Plug Wells

1028

\$7,196

608

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)	Signature	Date Signed
Vit Kuhnel, Hydrology Manager		

₩.	:PA		PL	UGGING	G AN	D ABA	NDON	M	ENT PL	AN			
EXC	and Address of F ELSIOR MINII NISON PROJE	NG CORP					EXCELSI	OR	ess of Owner MINING C PL, 2999 N	CORP	STE 300, PH	IOENIX, A	Z 85018
	ocate Well and C				tate AZ				ounty		Permit TBD	Number	
	1 1 1	N I		S		ocation D		of	SW 1/4 of	Section 31	Township	15S Range	23E
  -  -	-	_ _   _   _   -  -   -   -   -  -   -   -	- <del> </del> -   - <del> </del> -   - <del> </del> -	S	ocate wo	ell in two o	directions f	rom	nearest line ne of quarter	s of quarter			
w =	-	✓ Area	vidual Per a Permit	· 	TIO	N		SS I	covery				
L		ease Na	me					ss III <sub>ber</sub> 55-224	842, NSM-(	004			
	CA	SING AND TUB	ING RECOR	RD AFTER PL	UGGING	3			METH		ACEMENT O		
4.5	WT (LB/FT) Unknown	TO BE PUT IN	I WELL (FT)	596	FT IN W	ELL (FT)	4.5	ZE	The	e Balance Mo e Dump Bail e Two-Plug M er	er Method		
	CEMENTING	TO PLUG AND	ABANDON I	DATA:		PLUG #1	I PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of	Hole or Pipe in	which Plug Wil	l Be Placed	(inche:		4							
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	ated Top of Plug	,				2							
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•	Wt. (Lb./Gal.)					15.6							
Type C	ement or Other N	Material (Class I	II)			V							
		ST ALL OPEN H	OLE AND/O		TED INTE	ERVALS AN	ND INTERVA	ALS		ING WILL BE	VARIED (if a		
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Wate	er level will born of casing.			abandor	nment.	. Casing	will be p	erf	forated fr	om 50 fe	et above v	water leve	el to
\$7,8	ted Cost to Plug 805	Wells								- 1			
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Name a	and Official Title	(Please type o	r print)		Sigr	nature						Date Signed	<u> </u>
Vit K	uhnel, Hydrolo	gy Manager											

<b>⊘</b> □	ΓA		PL	UGGIN	IG AN	D AB	41	IDON	ИE	NT PL	AN			
	d Address of F									ss of Owner	•			
	LSIOR MININ ISON PROJE									MINING C L, 2999 N		TE 300, PH	IOENIX, A	Z 85018
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l <sub>w</sub>				E	]	TYPE OF	AU	THORIZAT	ION			WELL A	ACTIVITY	
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	<u> </u>			a Permit					L CLA					
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					Lease Na						Well Num	Jei		
	- I	SING AND TUB								METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)		LEFT IN W	ELL (FT)	_	HOLE SIZI	E	✓ The	Balance Me	ethod		
5	Unknown	0		593			5		4	=	Dump Baile			
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	CEMENTING	TO PLUG AND	ABANDON	DATA:		PLUG #	1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in					5								
Depth to	Bottom of Tub	ing or Drill Pip	e (ft	-		1172								
Sacks of	Cement To Be	Used (each plu	g)			164								
Slurry Vo	olume To Be Pι	ımped (cu. ft.)				193								
	ed Top of Plug					2								
	d Top of Plug (i	if tagged ft.)				1 7 0	_		_					
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Name an	d Official Title	(Please type o	r print)		Sign	nature							Date Signed	
Vit Ku	hnel, Hydrolog	gy Manager												

**<b>©EPA** 

<b>(</b> )	L	A		PL	.UGGII	NG AN	D AB	A١	NDON	ME	ENT PL	AN			
		Address of F									ess of Owner	•			
		SIOR MININ ISON PROJE									MINING C L, 2999 N		TE 300, PF	IOENIX, A	Z 85018
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		<u> </u>		- 🕇		and <u>577</u>					f quarter sec	tion.			
w		<del>                                     </del>		<del>- i -</del>	E	l			JTHORIZAT	ΠOΝ	1			ACTIVITY	
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	X		Rul							ss II Brine Dispos	al				
	_	†			1					nhanced Re					
		<u> </u>	_	Numbe	r of Wells	1				H	lydrocarbon	Storage			
												CLA	SS III		
			S			Lease Na	me					Well Num	55-224	840, NSM-0	006
		CA	SING AND TUB	ING RECO	RD AFTER	PLUGGIN	G				METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
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											Oth	er			
							1		1				1		
0:	- 6 11		TO PLUG AND				PLUG #	<b>#1</b>	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wil bing or Drill Pip		a (inche		4.5 1217	_		=					
			Used (each plu				114	=		Ħ					
Slurr	y Vo	lume To Be Ρι	ımped (cu. ft.)				134								
Calcu	ılate	d Top of Plug	(ft.)				2								
		l Top of Plug (i	if tagged ft.)												
		t. (Lb./Gal.)	Material (Class I				15.6	_		4					
Туре	Cen				DD DEDEO	NATED INT	V		INTERVAL		MUEDE OAG	INO WILL DE	WADIED (IS		
		From	ST ALL OPEN H	JLE AND/C	To		ERVALS A	ND	INTERVAL		From	ING WILL BE	: VARIED (IT 8	To	
529				1217											
	tor	lovol will b	e measured	nrior t	o aband	onmont	Casino	7 14	ill bo no	arf.	orated fr	om 50 for	at above i	vator love	ol to
		n of casing.		i prior t	o abanu	Omment	. Casille	5 VV	ill be pe	=110	orateu iri	JIII JU 160	et above v	water leve	
		d Cost to Plug													
	,51		VVCIIS												
٥٦	,,,,	J													
							Certific	at	ion						
			e penalty of law												
	info	ormation is tru	that, based on ie, accurate, an	d complet	e. Iam aw	are that th		-				_			e
L	pos	ssibliity of fine	and imprisonr	nent. (Re	f. 40 CFR 1	44.32)				_					
Name	and	Official Title	(Please type o	r print)		Sig	nature							Date Signed	1
Vit	Kuh	nel, Hydrolog	gy Manager												

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VL			PLU	JGGIN	G AN	D ABA	NDON	MENT PL	.AN			
EXCE	d Address of Fa LSIOR MININ IISON PROJE	IG CORP					EXCELSION	ddress of Owne OR MINING D PL, 2999 N	CORP	TE 300, PH	IOENIX, A	Z 85018
Loc	ate Well and O	utline Unit on			State AZ			County Cochise		Permit TBD	Number	
Sec	tion Plat - 640 A	Acres		_		ocation De	ecription	Cocilise		עפו		
		N						of SW 1/4 of	Section 31	Township	15S Range	23E
			<u> </u>	1				om nearest lin				
			- <del>-  </del> -   - <del>-  </del> -	:	Surface Location	849_ft. frn	n (N/S) N	Line of quarte	r section	section and	uning unit	
_ w			E				AUTHORIZA	TION			ACTIVITY	
lL	<u>i_ii.</u>	_ <b>L</b> _i_i				vidual Peri	mit		L CLAS			
х			ļ ļ		✓ Area				L CLAS	ıs II rine Dispos	al	
	<b>+</b> -		- + -			_	1			nhanced Re		
		╌┠╌┼╌╎	-		Number	of Wells			🗌 н	ydrocarbon	Storage	
	1 1 1	1 ; ;							CLAS	S III		
		S			Lease Na	me			Well Numb	er 55-223	835, NSM-(	007
	CA	SING AND TUB	ING RECORI	D AFTER P	LUGGING	}		METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE L	EFT IN W	ELL (FT)	HOLE SIZ	Έ / Th	e Balance Me	thod		
4.5	Unknown	0		600			4.5	Th	e Dump Baile	r Method		
				-					e Two-Plug M	ethod		
									her			
	CEMENTING	TO PLUG AND	ABANDON D	ATA:		PLUG #1	PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in v	which Plug Wil	l Be Placed (	(inche		4.5						
-	Bottom of Tub					1168						
	Cement To Be olume To Be Pu		ig)			109 129						
	ed Top of Plug					2						
	d Top of Plug (i											
Slurry W	t. (Lb./Gal.)					15.6						
Type Cer	ment or Other N	laterial (Class I	II)			V						
		T ALL OPEN H	OLE AND/OR		ATED INTE	RVALS AN	ID INTERVA		SING WILL BE	VARIED (if a		
600	From		1168	То				From			То	
Water	level will be n of casing.	e measured		abando	nment.	Casing	will be p	erforated fr	om 50 fee	t above v	vater leve	el to
_	d Cost to Plug	Wells										
\$8,17												
att int	ertify under the tachments and formation is tru sssibliity of fine	that, based on e, accurate, an	my inquiry o	of those in I am awa	examine dividuals	immediate	amiliar with	ible for obtaini	ng the inform	ation, I beli	eve that the	ð
Name an												
Itamo an	d Official Title	(Please type o	r print)		Sign	nature					Date Signed	<u> </u>
	d Official Title hnel, Hydroloยู	-	r print)		Sigr	nature					Date Signed	l

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<b>⊘</b> E	:FA		PL	UGGIN	IG AN	D AB	A۱	IDON	ME	NT PL	AN					
Name and Address of Facility								Name and Address of Owner/Operator								
	ELSIOR MINII NISON PROJE		EXCELSIOR MINING CORP CONCORD PL, 2999 N 44TH ST, STE 300, PHOENIX, AZ 85018													
Locate Well and Outline Unit on Section Plat - 640 Acres									Cou	nty chise		Permit TBD	Permit Number TBD			
	cotion i lat - 040 /	Surface Location Description														
	<del>                                      </del>		1/4 of <u>nw</u> 1/4 of <u>sw</u> 1/4 of <u>sw</u> 1/4 of <u>sw</u> 1/4 of Section <u>31</u> Township <u>15S</u> Range <u>23E</u>													
	-		Locate well in two directions from nearest lines of quarter section and drilling unit Surface   Location $695$ ft. frm (N/S) S Line of quarter section and $750$ ft. from (E/W) W Line of quarter section.													
w	<del>-      </del>			E	TYPE OF AUTHORIZATION WELL ACTIVITY											
					Individual Permit  ✓ Area Permit					L CLASS I						
			ļ ļ		=						CLASS II					
	- <del> </del>		- + -		Rule					Brine Disposal Enhanced Recovery						
	<b>^</b>	_			Numbe	r of Wells	1			Hydrocarbon Storage						
			l I							CLASS III						
		S			Lease Name					Well Number 55-224844, NSM-008						
	CA	RD AFTER	R PLUGGING					METHOD OF EMPLACEMENT OF CEMENT PLUGS								
SIZE	WT (LB/FT)	) ТО ВЕ	LEFT IN WELL (FT) HOLE SIZE				E									
5	Unknown	TO BE PUT IN		546	5					✓ The Balance Method						
										☐ The Dump Bailer Method ☐ The Two-Plug Method						
										Other						
								Guiei								
	CEMENTING	TO PLUG AND	ABANDON	DATA:		PLUG #	<b>‡1</b>	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
	Hole or Pipe in			d (inche		5										
	to Bottom of Tub					1273	_		4							
	of Cement To Be Volume To Be Pi		178 210	_		4										
_	ated Top of Plug		2	_		7										
-	ed Top of Plug (		i i	Ħ		7										
Slurry	Wt. (Lb./Gal.)			15.6												
Type Cement or Other Material (Class III)						V										
	LIS	ST ALL OPEN H	OLE AND/O	R PERFOR	ATED INTI	ERVALS A	ND	INTERVAL	LS W	VHERE CAS	ING WILL BE	VARIED (if a	ıny)			
	From			То						From			То			
546			1273													
	Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.															
\$8,911																
Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)																
Name and Official Title (Please type or print) Signature													Date Signed			
Vit K	uhnel, Hydrolo	gy Manager														

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<b>V</b> L			PL	_UGGII	NG AN	ID AB	A١	NDON	ME	ENT PL	AN					
									Name and Address of Owner/Operator							
EXCELSIOR MINING CORP GUNNISON PROJECT						EXCELSIOR MINING CORP CONCORD PL, 2999 N 44TH ST, STE 300, PI						IOENIX, A	Z 85018			
Locate Well and Outline Unit on Section Plat - 640 Acres									ounty ochise		Permit TBD	Permit Number TBD				
	tion rate 6467	Surface Location Description														
						1/4 of SW 1/4 of SE 1/4 of SW 1/4 of Section 31 Township 15S Range 23E										
│ ├─┼─├─┼─┠─┼─├─┼─│ │ ├─┼─├─┼─┠─┼─├─┼─│ ┃ ├─┼─├─┼─┠─┼─├─┼─┃						Locate well in two directions from nearest lines of quarter section and drilling unit Surface   Location $10$ ft. frm (N/S) S Line of quarter section and $949$ ft. from (E/W) E Line of quarter section.										
w	<u> </u>		-	E		TYPE OF AUTHORIZATION WELL ACTIVITY										
	"					Individual Permit  ✓ Area Permit					CLASS I					
			ļ ļ		Ru					CLASS II  Brine Disposal						
	<del> </del>		-+-				1	_			Enhanced Recovery					
<b> </b>		_	$- \dotplus - \mid$		Numbe	er of Wells	<u> </u>			Hydrocarbon Storage						
	X									CLASS III						
		S			Lease Name					Well Number 55-224845, NSM-009						
	CA	PLUGGING					METHOD OF EMPLACEMENT OF CEMENT PLUGS									
SIZE	WT (LB/FT)	LEFT IN WELL (FT) HOLE SIZE				Έ	✓ The Balance Method									
5						5				The Dump Bailer Method						
											The Two-Plug Method					
										Other						
	OFMENTING	TO DI LIO AND	ADANDON	L DATA:		DI IIO	#4	DI 110 #		DI 110 #2	DI 110 #4	DI 110 #5	DI 110 #6	DI 110 #7		
Size of H		TO PLUG AND				PLUG	#1	PLUG #	:2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Size of Hole or Pipe in which Plug Will Be Placed (inche Depth to Bottom of Tubing or Drill Pipe (ft						1349										
Sacks of Cement To Be Used (each plug)						189										
Slurry Volume To Be Pumped (cu. ft.)						223										
	ed Top of Plug					2			_							
Measured Top of Plug (if tagged ft.)						15.6	_		_							
Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)						V	_									
7,		ST ALL OPEN H		OR PERFOR	RATED INT	•	AND	INTERVA	LS \	WHERE CAS	ING WILL BE	VARIED (if a	inv)			
	From			То						From		`	То			
586																
	Water level will be measured prior to abandonment. Casing will be perforated from 50 feet above water level to bottom of casing.															
	Estimated Cost to Plug Wells															
\$9,443																
Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)																
Name and Official Title (Please type or print) Signatur													Date Signed	1		
Vit Kul	mel, Hydrolog	gy Manager														

Name and Address of Facility  EXCELSIOR MINING CORP GUNNISON PROJECT  Name and Address of Owner/Operator  EXCELSIOR MINING CORP CONCORD PL, 2999 N 44TH ST, STE 3												
CONCORD TE, 2000 IV TITIEST, STE O	300, PHOENIX, AZ 85018											
Locate Well and Outline Unit on	Permit Number TBD											
Section Plat - 640 Acres  Surface Location Description	1 222											
1/4 of <u>SW</u> 1/4 of <u>ne</u> 1/4 of <u>Se</u> 1/4 of <u>Se</u> 1/4 of Section <u>36</u> Tow	1/4 of <u>SW</u> 1/4 of <u>ne</u> 1/4 of <u>Se</u> 1/4 of Section <u>36</u> Township <u>15S</u> Range <u>22E</u>											
Locate well in two directions from nearest lines of quarter secti	Locate well in two directions from nearest lines of quarter section and drilling unit											
Location 966 ft. frm (N/S) N Line of quarter section	.ocation $\overline{966}$ ft. frm (N/S) $\overline{\mathrm{N}}$ Line of quarter section											
and 551 ft. from (E/W) E Line of quarter section.												
W TYPE OF AUTHORIZATION	WELL ACTIVITY											
│												
	ASS II											
	Brine Disposal											
Number of Wells 1	nhanced Recovery											
	Hydrocarbon Storage											
	CLASS III											
	MENT OF CEMENT PLUGS											
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  The Balance Method	The Balance Method											
4.5 Unknown 0 404 4.5 The Dump Bailer Met	iler Method											
The Two-Plug Method	The Two-Plug Method											
Other	Other											
CEMENTING TO PLUG AND ABANDON DATA: PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLU	.UG #5 PLUG #6 PLUG #7											
Size of Hole or Pipe in which Plug Will Be Placed (inche: 4.5	1200 110 11200 111											
Depth to Bottom of Tubing or Drill Pipe (ft 953												
Sacks of Cement To Be Used (each plug)												
Slurry Volume To Be Pumped (cu. ft.)												
Calculated Top of Plug (ft.)												
Measured Top of Plug (if tagged ft.)												
Slurry Wt. (Lb./Gal.) 15.6												
Type Cement or Other Material (Class III)												
LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VAR	RIED (if any)											
From To From	То											
953												
Water level will be measured prior to abandonment. Casing will be perforated from 50 feet ak	bove water level to											
bottom of casing.												
Estimated Cost to Plug Wells												
\$6,671												
Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)												
Name and Official Title (Please type or print)  Signature	Date Signed											
Vit Kuhnel, Hydrology Manager	_											